

PROVIDING THE MINING, SECTOR  
WITH INNOVATIVE,  
SUSTAINABLE, LOW COST AND  
FULLY FUNDED WATER  
MANAGEMENT SOLUTIONS

**RENEWABLE WATER FOR MINES**

UP TO 5,000 M3 OF POTABLE  
WATER PER DAY, EVEN IN THE  
MOST REMOTE AREAS



We are an Independent Water Producer (IWP) for the mining sector in Africa.



We provide our customers with alternative clean water supply for mining processes, staff and communities, through fully-financed projects



Our solutions are sustainable, competitive and scalable



We offer B-BBEE compliant solutions through our partnership with our South African investment partner Thukela Water Investments



# The Witsand Water Production Unit Africa's first solar desalination plant



Daily production of 120,000 liters powered by 100% solar energy  
Up to 330,000 liters with hybrid energy sources (Solar and Grid)  
Installed and commissioned by TWS in 10 weeks  
Cheaper than regulated tariffs



**FLEXIBLE**  
Off & On Grid  
100% Solar Energy  
or Hybrid (grid/battery)



**STRONG ECONOMIC COMPETITIVENESS**  
Return on investment from 3 to 5 years with one of the lowest water costs



**LOW ENERGY CONSUMPTION**  
2,5 kWh/m<sup>3</sup> : lowest level of advanced desalination technologies

## ADDRESS YOUR WATER CHALLENGES...

Water is critical for all mining and industrial operations

- A large number of mining and commercial operations in Africa are facing water challenges, both stressed supply and freshwater degradation
- Building water infrastructure is expensive and time-consuming
- Energy Cost can be up to half the cost of water

## ...WITH OUR TOTAL WATER MANAGEMENT SOLUTIONS

We provide decentralized solar powered water solution for both desalination and water reuse

- Independent and abundant water supply with guaranteed quality and quantity for long term security of operation
- No upfront investment required / 'off-balance sheet financing' Reduced energy requirements, OPEX and carbon emissions
- Mine rehabilitation and Community Development
- Cheaper than regulated water prices

## How we do it?



Innovative Technology : lowest electricity consumption and Solar Only mode. With OSMOSUN®, TWS can produce from 600 to 10,000 m<sup>3</sup> per day (Solar or Hybrid Mode) of affordable, clean and drinkable water everywhere to everyone, from Sea or Brackish Water.

### OPERATING COSTS OVER THE 20 YEARS OF USE : OSMOSUN® VS. CONVENTIONAL DESALINATION



Illustration of the OSMOSUN® competitiveness over the 20 years of operations in a context of electricity cost over 1R/kWh

Bennett Keikelame  
+27 82 578 7780  
bennett@consulmet.com

Contact us  
[www.water-solutions.co.za](http://www.water-solutions.co.za)

Romain Sormani  
+27 60 546 7333  
romain@water-solutions.co.za