



MEASURABLE ENERGY SAVINGS FOR MINING & INDUSTRY

ENGINEERED SOLUTIONS. PROVEN RESULTS. OPTIMISED SAFETY.

EST. 1995

South Africa's leading
energy efficiency
project implementer.
Millions of Rands saved.
**Measurable. Sustainable.
Verifiable.**



WE FOCUS ON **WAVES** – Water, Air,
Ventilation and **Electricity Savings** – the
biggest energy consumers in the mining industry.



OPTIMISING SAFETY
for workers and
people in the mine.

WAVES™ ENERGY OPTIMISATION



W

**WATER
SAVINGS**

Pumps
(underground
& surface)



A

**AIR
SAVINGS**

Compressors



V

**VENTILATION
SAVINGS**

Fans



E

**ELECTRICITY
SAVINGS**



S

SAFETY

Optimising safety
for workers and
people in the mine

WHO WE ARE

Founded in 1995, NPC is one of South Africa's leading
energy efficiency project implementers.

We provide customers the means to identify,
measure and verify energy savings projects
through tailored energy management solutions.

We help commercial, mining and industrial clients
save millions of Rands by delivering **measurable**,
sustainable and **verifiable** energy solutions.



**70+
MW**

**OF VERIFIED
LOAD REDUCTION**

Equivalent to
613.75 GWh
annual energy savings
delivered across
client projects.



REDUCED PER HOUR



LOWER OPERATING COSTS



LOWER CARBON EMISSIONS



IMPROVED PLANT RELIABILITY



SUSTAINABLE FUTURE

POWERLY™ ENERGY INTENSITY MANAGEMENT

Powerly™ real-time monitoring of kWh per ton production
enables operations teams to:

- ✓ Identify inefficiencies and operational waste
- ✓ Optimise plant loading and equipment utilisation
- ✓ Track and improve energy intensity
- ✓ Reduce operating costs and carbon emissions
- ✓ Drive continuous improvement with actionable insights



SIMPLE. PRACTICAL. ACTIONABLE.
Energy intelligence that delivers results.

OUR CORE SOLUTIONS

- Energy Management Systems
- Maximum Demand Control
- Power & Demand Management
- Metering & Monitoring Solutions
- System Optimisation
- Compressors, Pumps, Fans, Boilers
- Energy Audits & Power Quality Assessments
- Smart Grid & Industrial Communication Networks
- Renewable & Fossil Fuel Energy Saving Projects

TYPICAL RESULTS

- ✓ 8 – 25% energy reduction
- ✓ Reduced maximum demand penalties
- ✓ Improved plant efficiency
- ✓ Lower carbon emissions
- ✓ Improved operational reliability
- ✓ Fast project payback periods



OUR PROVEN 5-STEP ENERGY OPTIMISATION METHODOLOGY

1



MEASURE & VERIFY
Baseline
data collection

2



CALCULATE
Identify & estimate
energy savings

3



MANAGE RISK
Assess & mitigate
project risks

4



IMPLEMENT
Engineer & deliver
solutions

5



REALISE SAVINGS
Verify & sustain
the results

OUR COMMITMENT



SUSTAINABILITY
Reduce energy use
and carbon emissions



SAFETY & HEALTH
Protecting people,
safety and the
environment



QUALITY
Quality management
aligned with
ISO principles



**SOCIO-ECONOMIC
RESPONSIBILITY**
Enterprise development
and job creation



**SKILLS
DEVELOPMENT**
Investing in training
and expertise

Sole agents, representatives for
SATEC Global Smart Metering
for the African region

SATEC
Global Smart Metering

Sole agents, representatives for
Solid State, Graphene Supercapacitor
Batteries

MINT ENERGY
Intelligent Energy Solutions

VALTERRA
PLATINUM

HARMONY

SunCity

Coca-Cola
SOUTH AFRICA