



WE PROVIDE **CUSTOM
ENERGY SOLUTIONS
AND DESIGNS**

focused on the need and requirements of our clients, creating a cost efficient and sustainable energy profile at no cost.



Urban
Solar
energy

»» OUR VISION

We envisage a world where every consumer understands how to **harness and effectively utilise** their energy resources (e.g. utility, renewables, storage or fuel) for **energy efficiency** is still the most economical renewable energy and should be implemented before **alternative energy** sources are integrated and implemented by means of electrical account reform.

Our proven **5 STEP PROCESS** to energy optimisation:

STEP

01

Measurement

Establish a baseline for the current power quality, consumption, and usage profile through the deployment of power measurement devices for a period of at least 2 weeks.

STEP

02

Verification

Conduct utility meter audits, compare billing information with the actual measured data in order to verify if the utility billing is in fact correct. Discrepancies are highlighted to the utility, in order to benefit the consumer.

STEP

03

Analysis

The measured data is analysed to quantify the key energy factors such as power factor, harmonics, power consumption, peak demand values and the usage profile.

STEP

04

Optimisation

The analysed data is not only used to project possible energy efficiency savings but also to size the required equipment which will realise these savings (e.g. filters, PFC units)

STEP

05

Renewables

Alternative energy generation systems (e.g. Solar PV, Wind, Biomass) are then sized according to the actual load to further increase the energy savings to the consumer.

»» OUR VALUES

We value strong and lasting relationships with our clients based on a foundation of **trust, integrity and a strong business ethic**. We pride ourselves in **empowering people** and businesses to reach their full potential and maintain growth and strive towards **building a sustainable world**.

We are an energy firm established with the **primary goal to enable the end consumers' optimum utilisation of the energy resources at their disposal.**





Measurement

Energy Measurement and Verification (M&V) is the process of measuring, collecting, and analysing data for the purpose of establishing a baseline for energy savings within an individual facility.

The process is usually carried out by continuous measurement over an extended period in order to realise and manage the projected energy savings.

BENEFITS OF A M&V PROCESS:

- Energy savings and taxation benefits through baselining,
- Cost reduction when financing projects (i.e. right-sizing),
- Achieve energy resource efficiency and environmental objectives.

OUR SERVICES INCLUDE:

- Audit of utility meters, utility billing disputes and management
- Energy usage, power quality and harmonic measurements
- Implementation of renewable energy equipment



Efficiency

Efficient energy use simply means using less energy to perform the same task, which is achieved through eliminating energy waste.

The ratio of actual energy used vs. wasted energy is called the power factor, this factor should be as close to unity as possible (i.e. no waste). The use of power factor correction (PFC) units and harmonic filters are used to improve the power factor and with it the energy efficiency.

EFFICIENCIES DELIVER:

- Reduced energy (kWh) and peak demand (kVA) costs
- Released electrical capacity in the distribution system
- Extended the lifetime of plant equipment.

OUR SERVICES INCLUDE:

- Audit plant specific energy efficiency requirements and possibilities
- Develop of plant specific energy efficiency plans complete with projected savings
- Engineer, procure, construct and management of energy efficiency projects.



Renewables

Renewable energy, comes from natural sources or processes that are constantly replenished (i.e. solar PV which uses light energy from the sun to generate useful electric energy).

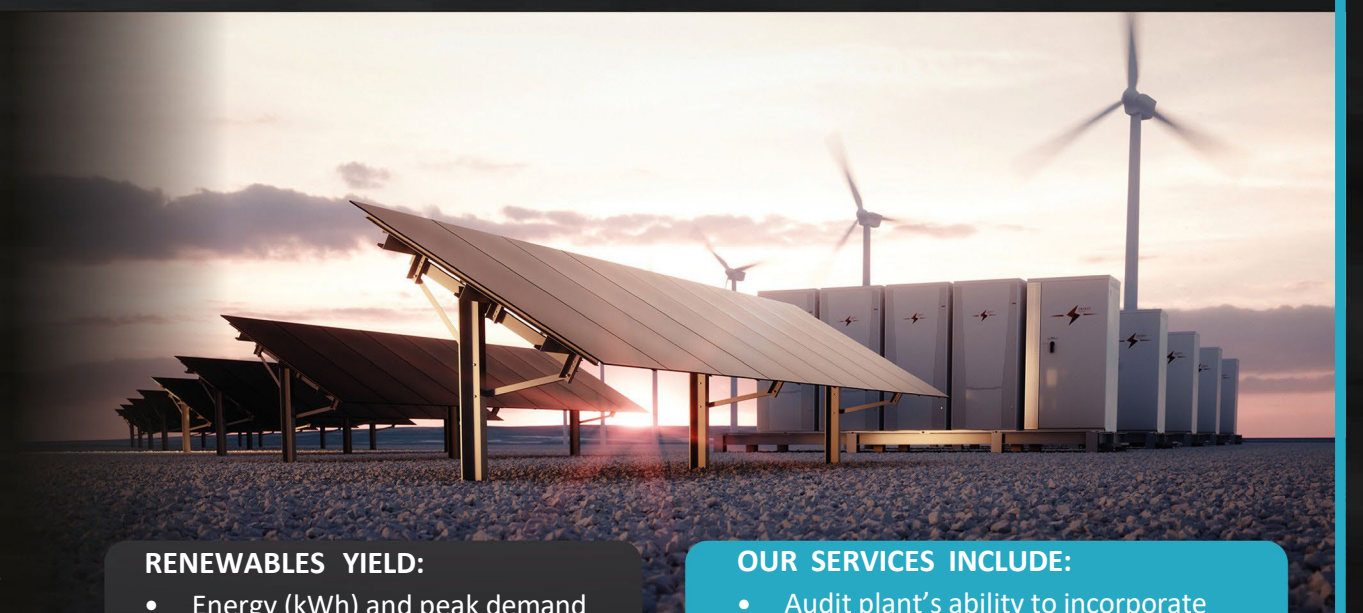
Nowadays more innovative and less-expensive ways to capture and retain wind and solar energy exists which is why renewables are becoming more feasible than fossil fuels.

RENEWABLES YIELD:

- Energy (kWh) and peak demand (kVA) savings from day 1
- Uptime and consistency of supply (diversified energy sources)
- Funding (i.e. zero capex required) through financing and/or power purchase agreements

OUR SERVICES INCLUDE:

- Audit plant's ability to incorporate solar PV including selling of excess power to the grid
- Engineer, procure, construct and management of renewable energy projects
- Securing of funds, licensing with the utility and all legislative requirements



Urban Energy Solar Solutions

The Urban Green Energy process is designed to provide consumers access to green energy that will take them off grid for a 100% energy process aligned with a sustainable energy reform process.

- » **100% Off Grid**
- » **Free Solar System + Installation**
- » **Free Green Electricity**
- » **0% Electricity increases**
- » **Free Solar Upgrades every 5 Years**

Why Urban Energy?



The environmental benefits and sustainable economic opportunities of solar energy add to its value as the most responsible way to save money.

Solar power is also reliable and consistent, and sunny South Africa offers an ideal solar environment.

Most areas in the country average more than 2 500 hours of sunshine per year, making South Africa the world's third best solar location after the Sahara and Queensland in Australia



SUN | SOLAR | SAVE

Our turnkey solar service provides peace of mind that the system on your roof is always maintained, monitored, insured, and performing at it's optimum to provide the highest customer savings, with Zero Capex Investment

Urban Energy At Your Fingertips



Zero capex Investment

Zero capital investment for a fully installed Tier 1 system.



Maintenance & Operations Included

All maintenance is provided throughout the lifetime of the agreement.



Insurance Cover Included

Any faulty or broken equipment is covered & repaired at no cost.



Reduced Electricity Bills

Save up to 98% on monthly electricity consumption costs.



Performance Monitoring

All systems are monitored 24/7 to ensure optimum customer savings.



Renewable Reform Energy

Become more environmentally conscious by using green energy as your main energy source



Off Grid Connection

Complete off grid connection thus making your energy system grid tied for bidirectional feed for if and when needed