



COMPANY PROFILE



SWAN ENERGY LIMITED

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Did you know?

Kenya is now the world's ninth largest producer of geothermal energy. Current plans envisage the doubling of capacity by the end of 2016 through expansion of the existing Olkaria plant. The Turkana Wind Power Project will also add **20%** to currently installed capacity.

TWO in every three people in Africa, around 621 million in total, have no access to electricity.

Facts about renewable energy

It is said that enough solar energy falls on the earth every second to provide all the world's energy needs for a year - the problem has been how to harness it.

On a sunny day at noon, each square metre of the earth's surface receives around 1 kilowatt of solar power.

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OUR ORIGIN

Swan Energy commenced its operations in Kenya with an aim to develop the renewable energy sector in Africa by providing renewable energy solutions of solar, wind, biomass, geothermal and hydro power. Renewable energy exist perpetually and in abundant quantity in the environment. It is ready to be harnessed, inexhaustible and more importantly a clean alternative to fossil fuels.

OUR VISION

Powering Africa through Renewable Energy. Africa has the potential and the ability to utilize its renewable resources to fuel the majority of its future growth with renewable energy. With world-class solar and hydropower resources, complemented by bioenergy, wind, geothermal and marine resources in some regions, Africa has the opportunity to leapfrog to modern renewable energy.

OUR MISSION

To explore and develop renewable energy solutions of solar, wind, geothermal, biomass and hydro power in Africa through expert engineering and technological innovation improving the social, economic and environmental welfare of African countries.



OUR VALUES



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1. INNOVATION

We promote and implement creative and innovative ideas and solutions. We value openness and curiosity to learn from anyone anywhere.

2. PASSION

We are passionate about our business, our brand and our partners. We delight in delivering energy solutions to communities and businesses across Africa.



3. INTEGRITY

We are committed to uphold integrity and ethics in our area of work. We respect and value all individuals with their diverse backgrounds, experiences, styles approaches and ideas

4. SUCCESS

We strive to achieve results and work as a team making people feel valued and appreciated. We have the drive to get the job done and overcome challenges and obstacles.

5. QUALITY

We delight in our customers and are geared towards delivering high quality products and services.

POWERING AFRICA



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HOME GROWN

POWERING AFRICA

THE POTENTIAL

Africa has the potential and the ability to utilize its renewable resources to fuel the majority of its future growth with renewable energy. Investing in renewable energy in Africa makes good business sense. With world-class solar and hydropower resources, complemented by bioenergy, wind, geothermal and marine resources in some regions, Africa has the opportunity to leapfrog to modern renewable energy. Renewable energy technologies are now the most economical solution for off-grid and mini-grid electrification in remote areas, as well as for grid extension in some cases of centralized grid supply with good renewable resources. Our goal is to help unearth the renewable energy potential in Africa.



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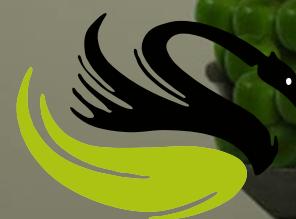
Through global partnerships we aim to Finance, Engineer and Construct renewable energy power plants to ensure delivery of reliable energy to national grids. Our primary focus in the renewable energy industry is solar power. Africa is considered and referred to as the “Sun Continent” as it receives many more hours of bright sunshine in the course of the year than any other continent. Our aim is to lead the growth and development of solar power in African countries and make a meaningful difference in averting climate.

RENEWABLE ENERGY

ENDLESS POSSIBILITIES

Renewable Energy exist in the form of solar, wind, geothermal, hydro & biomass energy. Africa has the potential and the ability to utilize its renewable resources to fuel the majority of its future growth with renewable energy. Investing in renewable energy in Africa makes good business sense. With world-class solar and hydropower resources, complemented by bioenergy, wind, geothermal and marine resources in some regions, Africa has the opportunity to leapfrog to modern renewable energy. Renewable energy technologies are now the most economical solution for off-grid and mini-grid electrification in remote areas, as well as for grid extension in some cases of centralized grid supply with good renewable resources. Dependency on -

fossil fuels has contributed to a rise in carbon emissions leading to climatic change. Concerns over security of supply has exposed countries to increased fuel price volatility due to world market fluctuations. For these reasons renewable energy is becoming more attractive from both an economic and strategic development. Our goal is to help unearth the renewable energy potential in Africa.

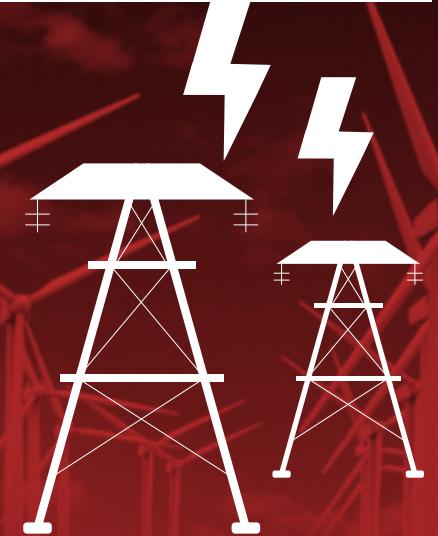


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THE MASTER PLAN



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THE MASTER PLAN

01

Provide support with planning, engineering, installation and commissioning of renewable energy projects.



02

Providing quality engineering services and innovative technological solutions to ensure the successful delivery of energy.



03

Help develop and implement policies that will increase the production of renewable energy in African countries.



04

Conduct energy audit services on organizations assisting them in operating in an energy efficient way.



05

Support and promote clean, secure and economically viable renewable energy developments to ensure decreased dependence on fossil fuels with the aim of mitigating the worst effects of climate change.



OUR WORKFLOW



SWAN SOLAR



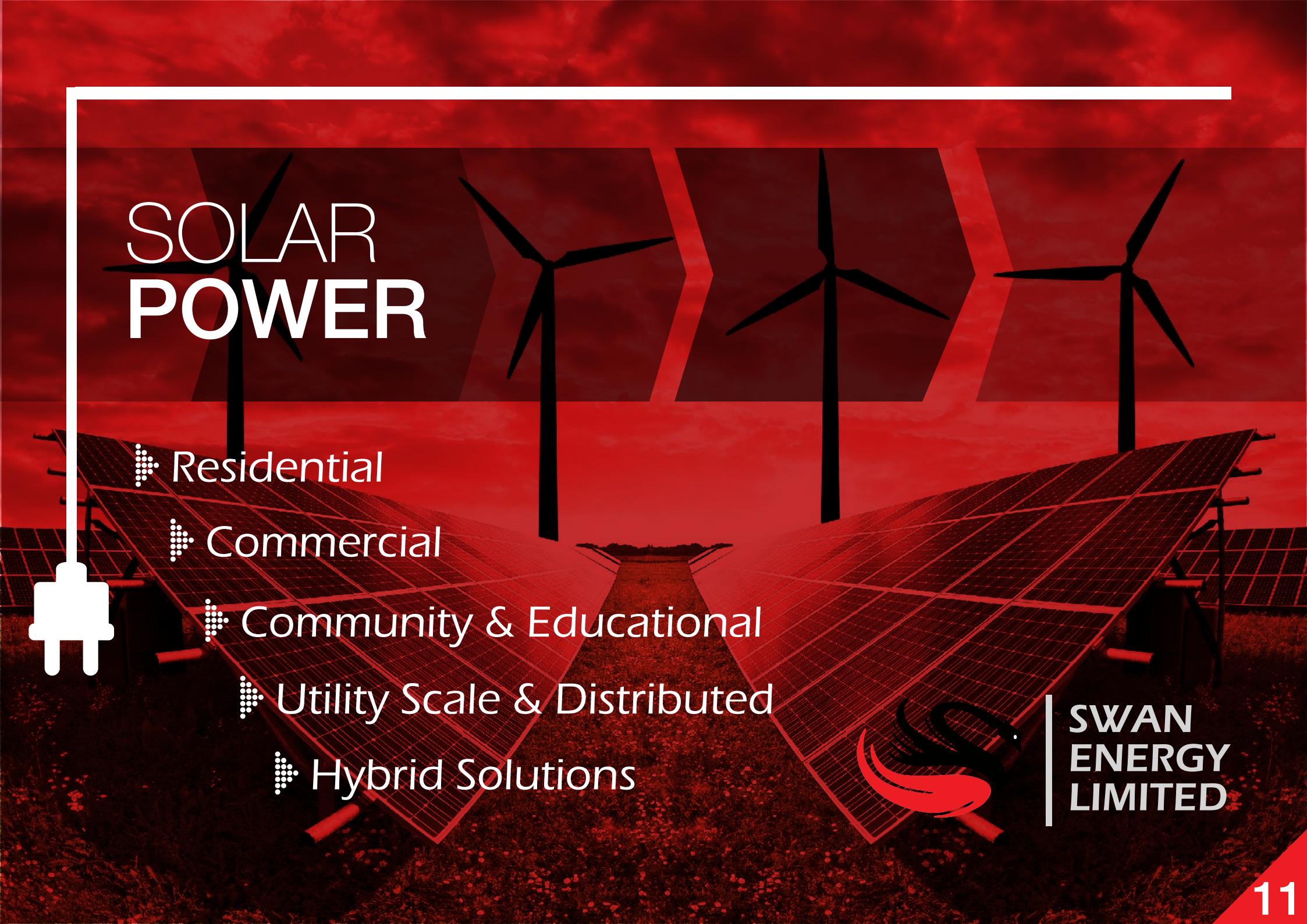
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“...the only thing that will stop electricity bills from shooting through the roof is the roof...”



SOLAR POWER

- Residential
- Commercial
- Community & Educational
- Utility Scale & Distributed
- Hybrid Solutions



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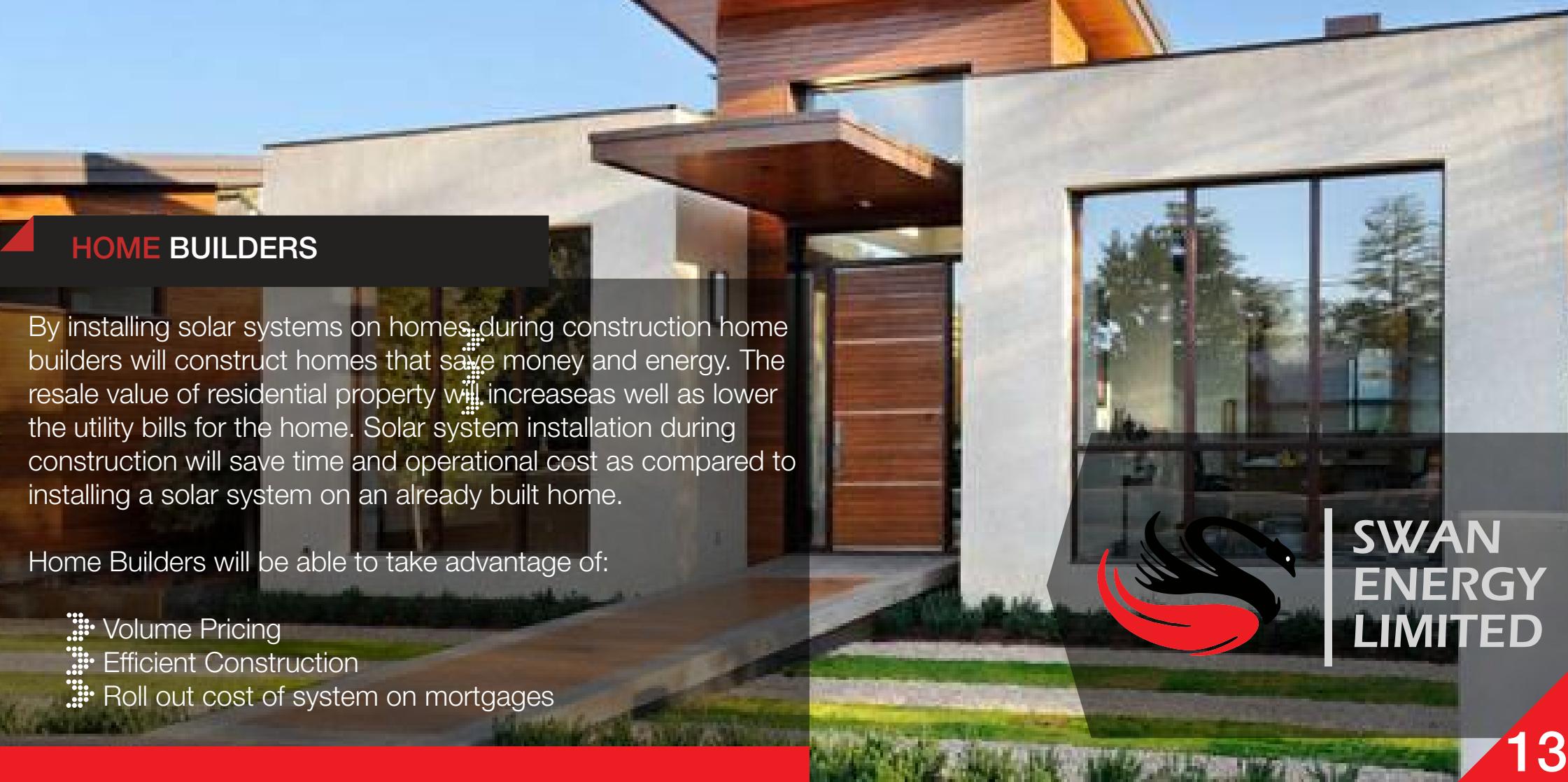
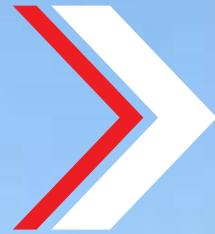
1. RESIDENTIAL SOLAR

HOME OWNERS

Home Owners are now able to unearth their solar generation potential through their roof. We create a custom design for homes as well as conduct an energy audit estimating the future savings of the solar installation. We enable you to cut utility bills and save money making living in solar homes cheaper.



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HOME BUILDERS

By installing solar systems on homes during construction home builders will construct homes that save money and energy. The resale value of residential property will increase as well as lower the utility bills for the home. Solar system installation during construction will save time and operational cost as compared to installing a solar system on an already built home.

Home Builders will be able to take advantage of:

- Volume Pricing
- Efficient Construction
- Roll out cost of system on mortgages



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2. COMMUNITY SOLAR

INCLUSIVE DEVELOPMENT

Unpowered communities and villages can now access electricity by harnessing the power of the sun. Our goal is to deliver reliable and affordable solar power to under-served communities without access to electricity by offering community solar installation packages that suite their needs. We engage in Community development project by offering affordable power in:

- Water pumping
- Solar street lighting
- Hospital solar systems



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BRIGHTER
COMMUNITIES



SOLAR WATER PUMPS

CLEAN WATER

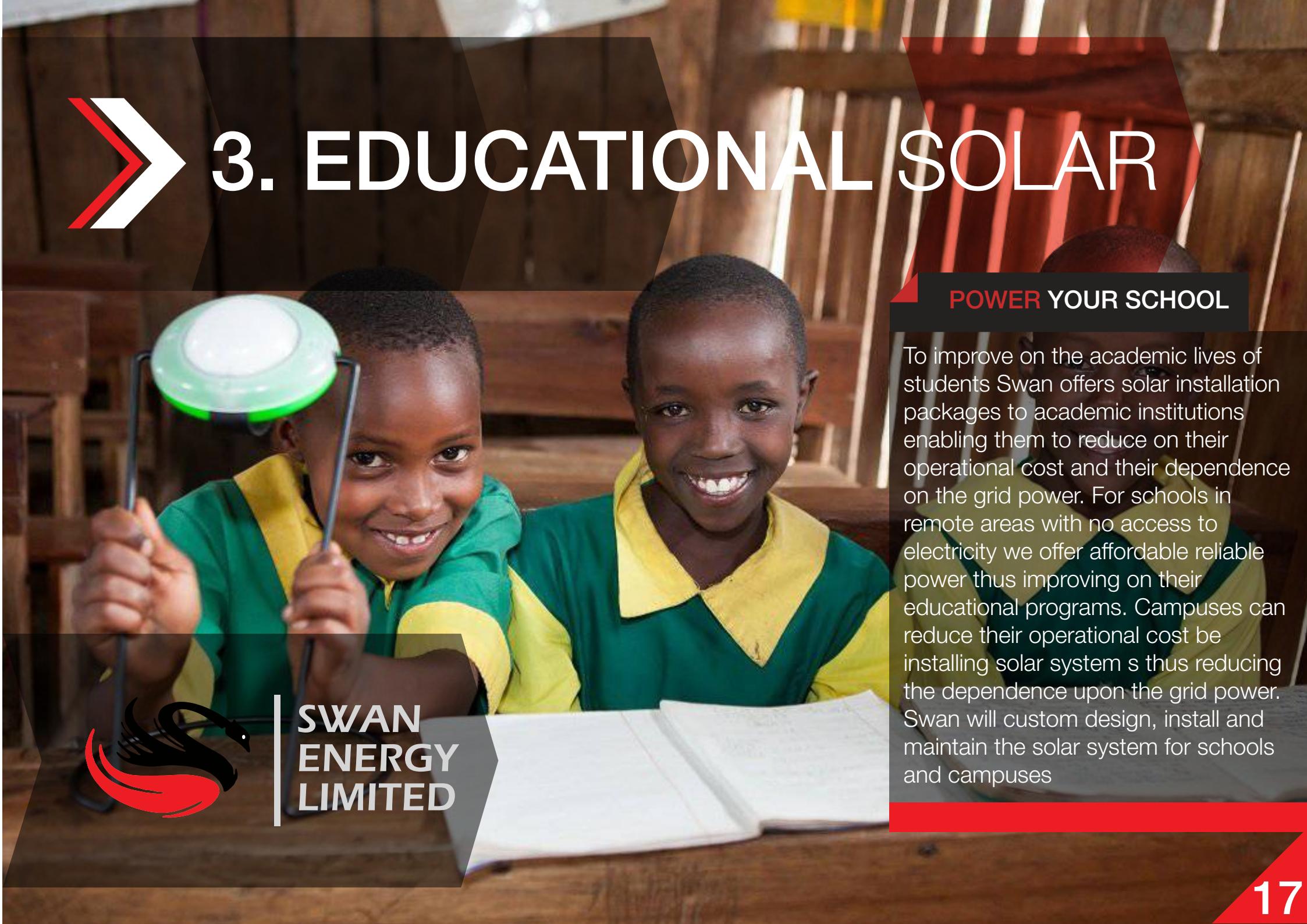
Every day about 300 million people living in rural communities and poor urban centers throughout sub-Saharan Africa suffer from a lack of access to clean, safe water. The infrastructure to pipe water from fresh, clean sources to arid areas is too costly of an endeavor.

Groundwater is the best resource to tap to provide clean water to the majority of these areas in Africa, especially rural Africa.

Solar Powered Water Pumps can deliver drinking water from Ground Water Resources as well as water for livestock or irrigation purposes to suit the needs of the communities.



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3. EDUCATIONAL SOLAR



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POWER YOUR SCHOOL

To improve on the academic lives of students Swan offers solar installation packages to academic institutions enabling them to reduce on their operational cost and their dependence on the grid power. For schools in remote areas with no access to electricity we offer affordable reliable power thus improving on their educational programs. Campuses can reduce their operational cost by installing solar systems thus reducing the dependence upon the grid power. Swan will custom design, install and maintain the solar system for schools and campuses.



4. COMMERCIAL & INDUSTRIAL SOLAR

SMALL & MEDIUM BUSINESSES

We offer installation packages to business enterprises steering them toward energy independence as well as enabling them to reduce their operational cost. Solar systems create greater saving capabilities by reducing electricity utility bills for businesses.



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SHADE AND
POWER



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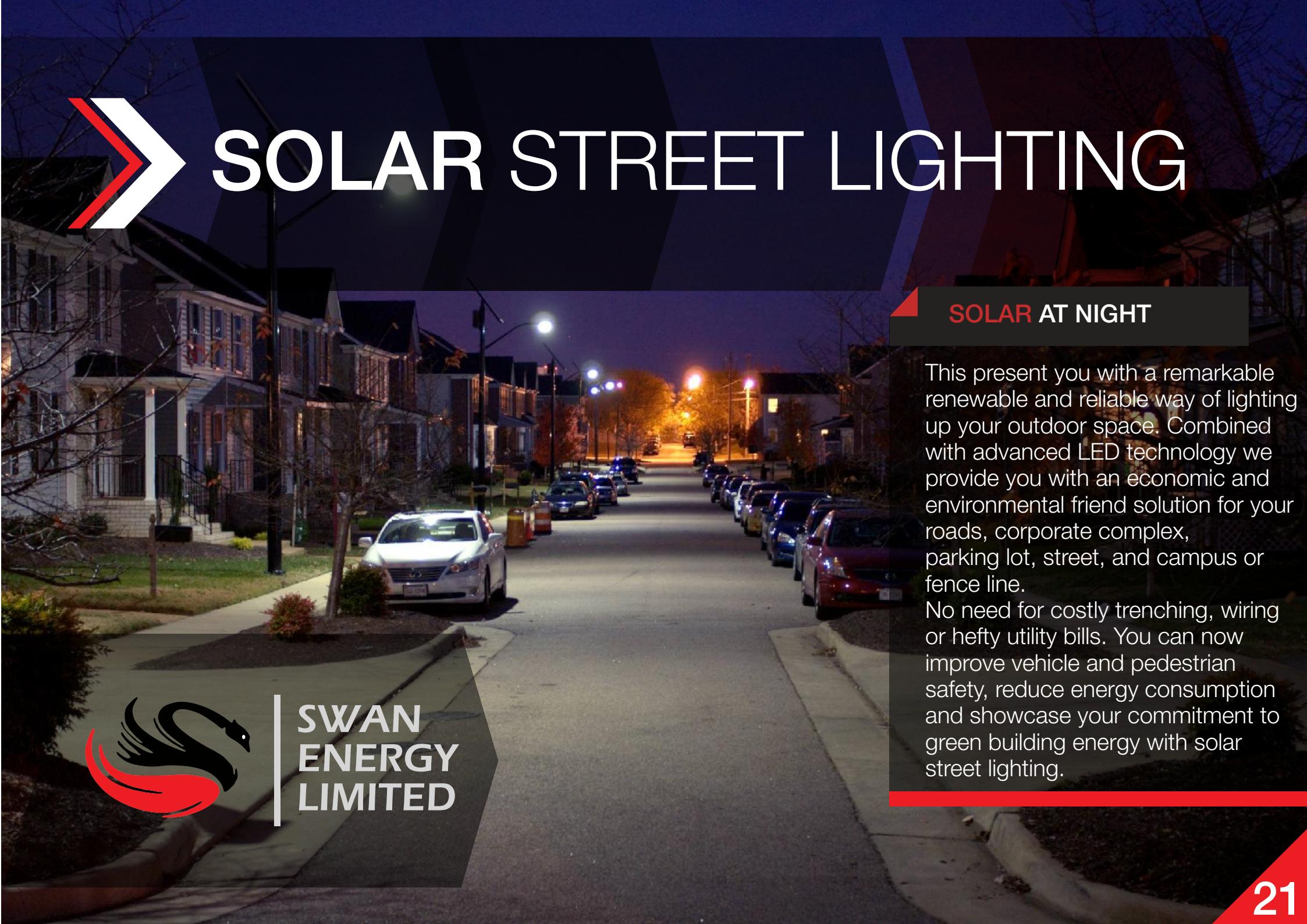


LARGE COMMERCIAL

We are geared towards delivering clean, reliable, cost effective solar power to large commercial enterprises. Through solar we deliver economically attractive power to institutions. Our goal is to maximize the energy output as well as to reduce the levelized cost of energy (LCOE). Large companies are able to realize operational efficiency by reducing their operational cost thus save money. We steer you towards Energy Independence.



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SOLAR STREET LIGHTING

SOLAR AT NIGHT

This present you with a remarkable renewable and reliable way of lighting up your outdoor space. Combined with advanced LED technology we provide you with an economic and environmental friend solution for your roads, corporate complex, parking lot, street, and campus or fence line.

No need for costly trenching, wiring or hefty utility bills. You can now improve vehicle and pedestrian safety, reduce energy consumption and showcase your commitment to green building energy with solar street lighting.



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5. DISTRIBUTED SOLAR



ENERGY SECURITY

Through Distributed solar systems we are able to increase supply electricity to the grid. This lowers environmental impacts and improves security of power supply. It also offers the ability to reduce peak demand of power, eliminating the need to hedge against fuel price swings and enhance grid security.

It provides value to society by reducing the economic losses of blackouts.

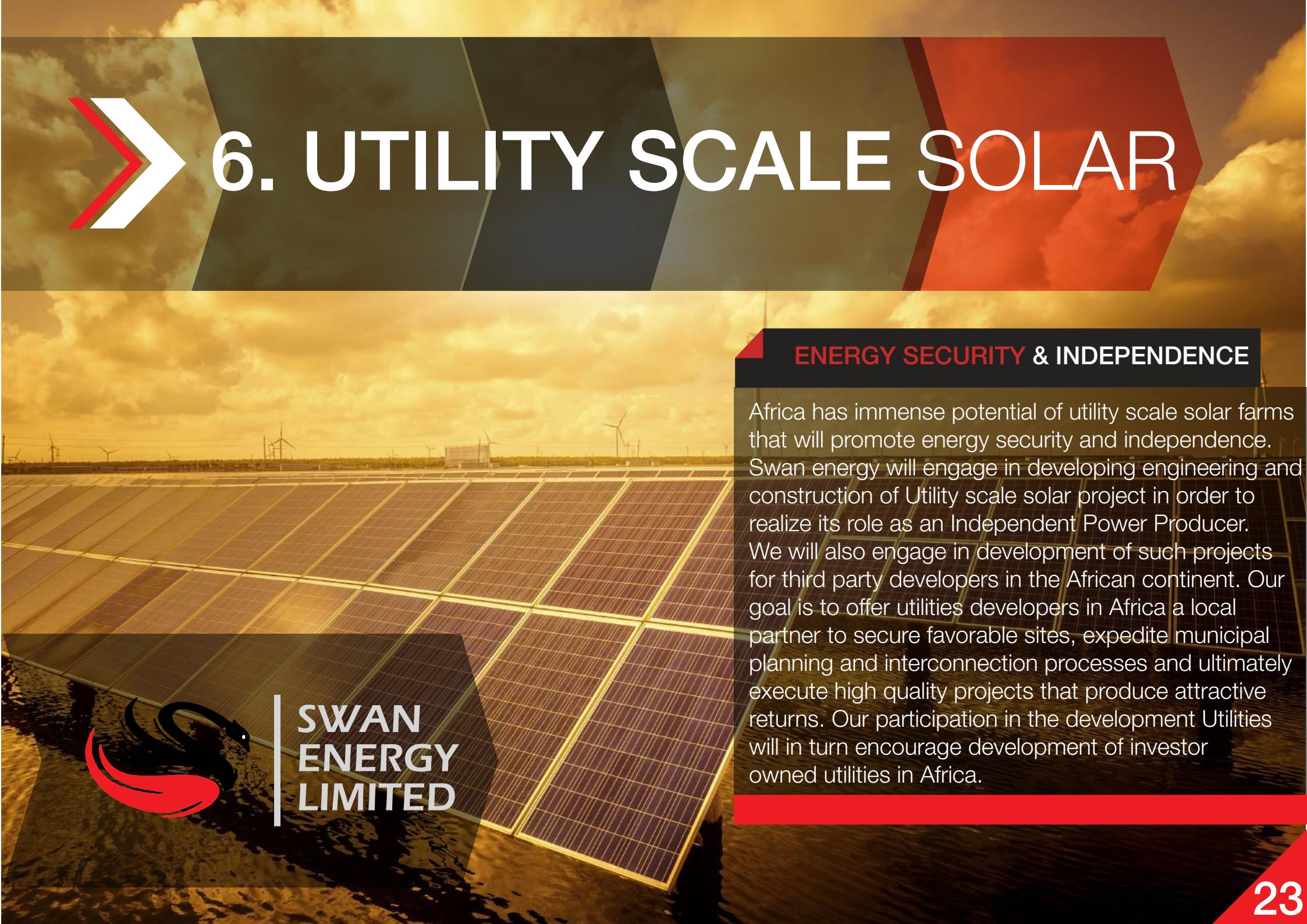
We are geared towards developing residential-scale distributed generation as well as encouraging commercial distributed generation in African countries.

Benefits:

- Increased Electricity supply into the grid
- Enhanced grid security
- Reduced economic losses of blackouts
- Reduced peak demand of power.



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6. UTILITY SCALE SOLAR

ENERGY SECURITY & INDEPENDENCE

Africa has immense potential of utility scale solar farms that will promote energy security and independence. Swan energy will engage in developing engineering and construction of Utility scale solar project in order to realize its role as an Independent Power Producer. We will also engage in development of such projects for third party developers in the African continent. Our goal is to offer utilities developers in Africa a local partner to secure favorable sites, expedite municipal planning and interconnection processes and ultimately execute high quality projects that produce attractive returns. Our participation in the development Utilities will in turn encourage development of investor owned utilities in Africa.



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SOLAR WATER HEATERS

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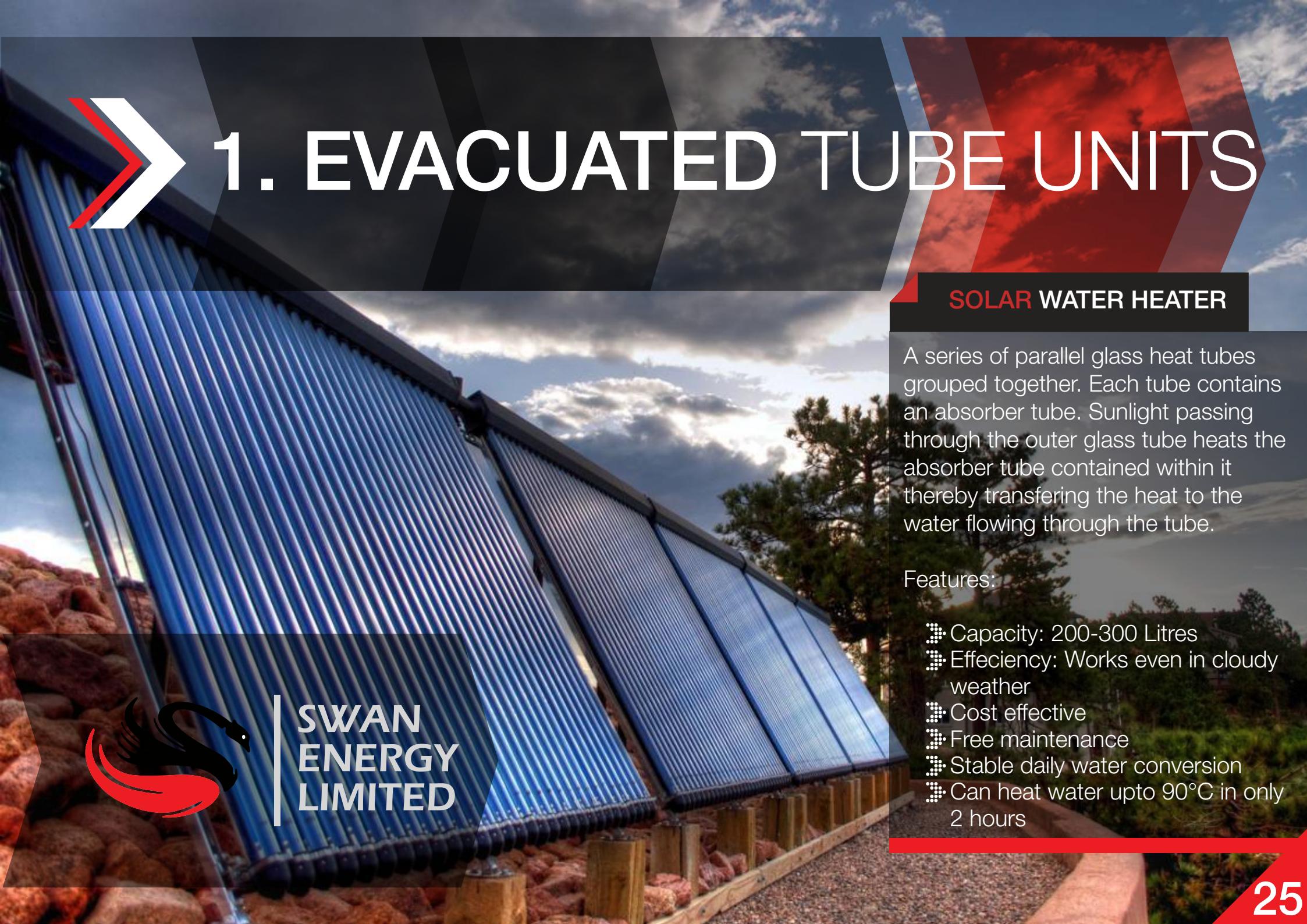
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Reduce your hot water heating cost by switching to solar. We help you select a solar water heater that meets your needs.



1. EVACUATED TUBE UNITS

SOLAR WATER HEATER



A series of parallel glass heat tubes grouped together. Each tube contains an absorber tube. Sunlight passing through the outer glass tube heats the absorber tube contained within it thereby transferring the heat to the water flowing through the tube.

Features:

- Capacity: 200-300 Litres
- Efficiency: Works even in cloudy weather
- Cost effective
- Free maintenance
- Stable daily water conversion
- Can heat water upto 90°C in only 2 hours



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2. FLAT PLATE UNITS

SOLAR WATER HEATER

A sheet of black metal that absorbs the sun's energy encases the collector system. Water is fed through the system in pipes which conduct heat onto the water. This system is ideal for commercial solar water heating applications.

Features:

- Capacity: 200-300 Litres
- Efficiency: Works even in cloudy weather
- Good aesthetics
- Free maintenance
- Stable daily water conversion
- Copper heat pipes for rapid heat transfers



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POWERING AFRICA



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