

LIGHT UP WITH SOLAR

SOLAR POWER ETAL SPECTRUMS

HARNESSING THE
POWER OF SUN



SOLAR POWER **etal**
SPECTRUMS

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Contents

Company Overview	4
About SPES	5
Our Process	6
Why SPES Energy Solution?	7
SPES Competitive Advantages	8
What We Do	9
Our Power Solutions	10
Benefits of Using Solar	14
Unique Features of Solar	15
Contact Us	18



Company Overview

Climate change has been a serious issues around the globe for decades. Many of the observed changes since the 1950s are unprecedented in the instrumental temperature record which extends back to the mid-19th century, and in paleoclimate proxy records covering thousands of years. The effects cannot be over accentual: heat waves, heavy rainfall with floods, drought, toxic atmosphere etc. This has led to scientist to research about energy that will reduce the effect of climate change.



About SPES

Solar power Etal spectrums is an indigenous incorporated renewable energy solution firm established in the year 2016 with the objective of providing high-tech, affordable, durable and dependable solutions for both Wind and Photovoltaic technologies. Solar Power Etal Spectrums has developed capabilities of setting up and commissioning large scale power projects. We also provides Engineering, Procurement and Construction (EPC) services.

SPES is a leader in the renewable energy sector. We prides ourselves as a leader in technology solutions that are environmental friendly, energy efficient & cost effective and are capable of delivering a quick return on investment.

We consistently deliver on quality and performance. This is because the only guarantee for high outputs- and our customers lasting satisfaction- is the long term reliability of our solar solutions.

Solar Power Etal has over 15 years' experience in the implementation of renewable energy systems.

Our Process:

Design

Each system is designed by our highly experienced team who leave little room for error.

Supply

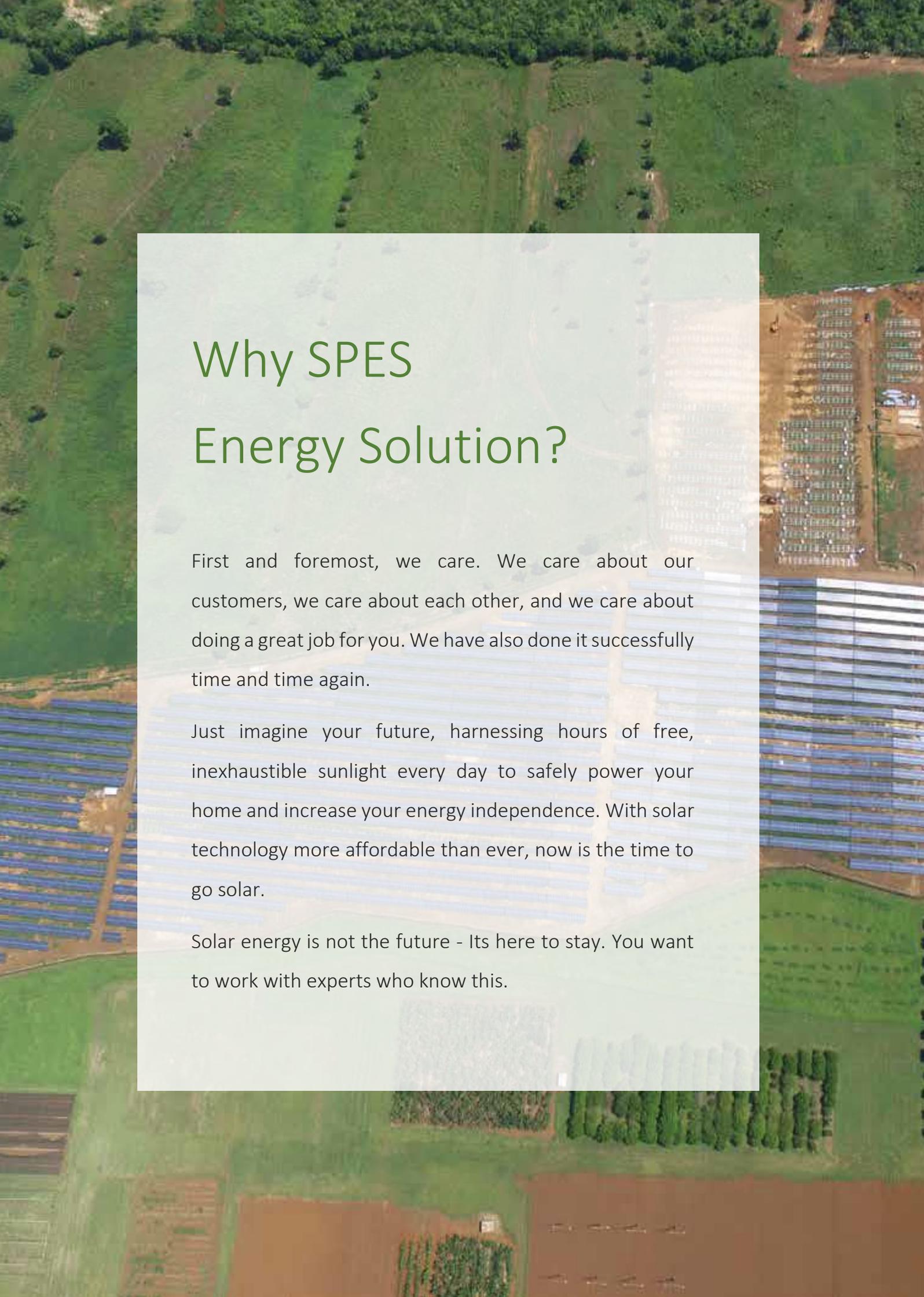
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Execution

The process of installing Solar Systems, Backups and Inverter requires experience and skill set. we have over 15 years professional experience working on various projects

Service & Maintenance

We monitor and support every custom installation to ensure each system works optimally.



Why SPES Energy Solution?

First and foremost, we care. We care about our customers, we care about each other, and we care about doing a great job for you. We have also done it successfully time and time again.

Just imagine your future, harnessing hours of free, inexhaustible sunlight every day to safely power your home and increase your energy independence. With solar technology more affordable than ever, now is the time to go solar.

Solar energy is not the future - Its here to stay. You want to work with experts who know this.



SPES Competitive Advantages

Our services are aimed at ensuring that the full potential of renewable energy is met while exceeding the expectations of our customers:

- Using global technology expertise and local understanding to provide solutions best suited for Africa.
- Cost effective and competitive solutions irrespective of scale
- Capability to handle large/multiple solar installations, with speed of deployment

We align with our customers' needs so that we continually add value, not just complete an assignment. SPES is a partner that you can trust to deliver long-term product/project performance. With over 15 years' experience developing and innovating renewable energy solutions, our track record ensures that your solar system will provide decades of dependable energy production.

What We Do



Engineering, Procurement & Construction

SPES is a leading contractor providing complete turn-key solar power solutions for utility scale PV projects.

We offer both full EPC scope including panel supply, as well as EPC for balance of system (BoS) according to client needs.

- Full turn-key EPC responsibility
- Optimized in-house engineering & design
- Procurement strategy based on approved tier-1 suppliers
- Energy storage integration and hybrid solutions
- Electrical substations and grid interconnections

Product Sales

We are a dependable vendor of high-quality solar system and accessories.

- Solar Panels
- Inverters
- Batteries
- Charge Controllers
- Power Combiners
- Switches/Fuses/Cut Off
- Street Lights
- Components

Operation & Maintenance

We are experts in O&M for solar power plants, offering a full range of plant monitoring, preventive and corrective maintenance services backed up by appropriate contractual guarantees depending on customer requirements.

- Preventive & Corrective maintenance
- Site inspection/ Assessment
- System Design
- Procurement
- Installation
- Information management and reporting
- Upgrade
- Training

Our Power Solutions

Power Solutions – UPS Cabling/Inverter/Solar

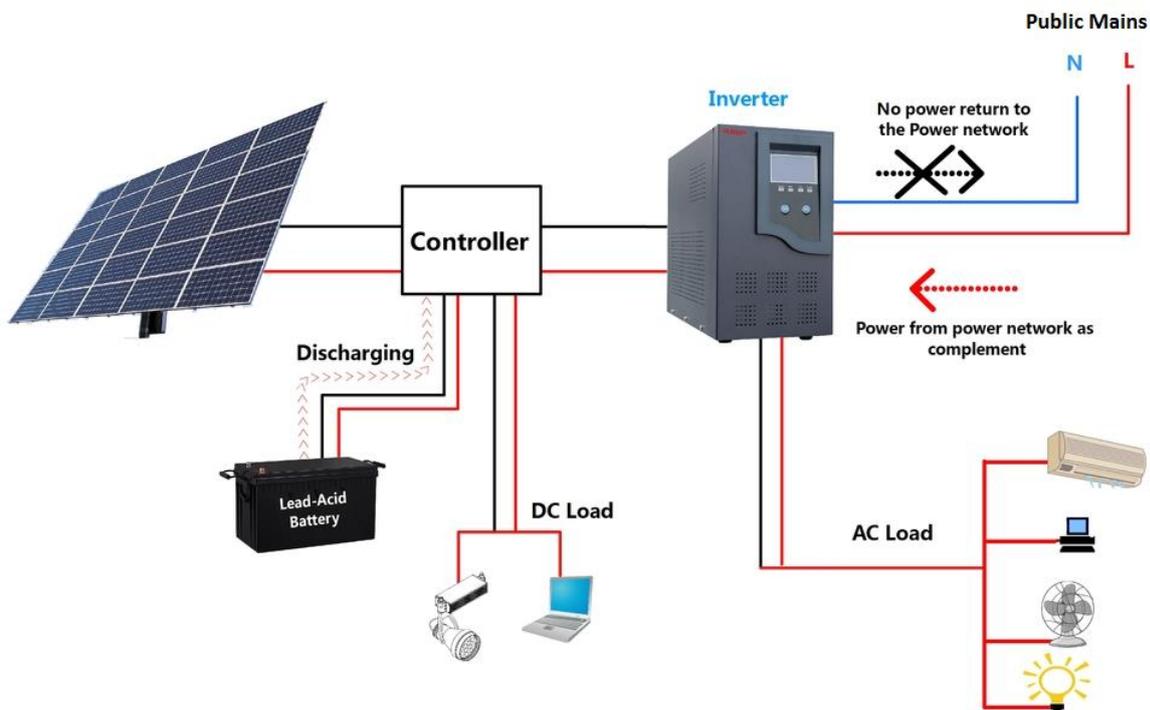
Solar Power Etal provides reliable custom and regular power solutions ranging from UPS Systems to industrial inverters and Solar Panels. We design solutions for banks, residential, government and industrial purposes.

Off-Grid Solar Solutions

Our Off-grid solar energy systems convert sunlight into electricity where there isn't regular access to electricity. Solar energy is converted to electricity for immediate use with the excess stored in batteries for later use.

Our off-grid solar energy system can be used in areas without access to electricity or epileptic electricity supply like offices, homes, hospitals and telecommunications stations especially those located in areas without access to public utility grids, such as remote villages. In these cases, off-grid solar energy

systems replace or supplement conventional power generation solutions such as generators.



Rooftop solar systems

Rooftop systems are the most popular option for homeowners. Residential roofs typically have enough available space and, if unshaded and facing toward between SSE and SSW, are well-suited for optimal energy production. It withstands extreme environmental conditions while maintaining the integrity of your roof. Installation can be done on nearly any roof—sloped or flat. It helps keep your home cooler in the summer by providing shade from the sun and warmer in the winter by creating a heat barrier.



Ground solar system

If you have a need for a larger system than your roof area will accommodate, a ground-mounted system may be right for you if you have space on your lot.

- Anchor to the ground to ensure stability.
- Withstand extreme environmental conditions.
- Can be installed on nearly any contour at a variety of heights and tilt angles.
- Have options for raised mounting structures to provide power to the home and shade for people or vehicles.





Benefits of Using Solar Energy

Powers your home with Clean Power:

Solar power systems derive clean, pure energy from the sun. Installing solar panels on your home helps combat greenhouse gas emissions and reduces our collective dependence on fossil fuel. Traditional electricity is sourced from fossil fuels such as coal and natural gas. When fossil fuels are burned to produce electricity, they emit harmful gases that are the primary cause of air pollution and global warming.

Solar power is a renewable resource:

We can't make more oil. Eventually, it will run out. But the sun will never run out — and if it does, we have more problems to

worry about than powering our homes!

Solar power is a renewable resource that can be used over and over again without depletion. The sun provides us with an inexhaustible energy supply that is more than enough to power the world — if we harness it.

Solar power protects natural resources:

While fossil fuel production, particularly hydraulic fracking, requires significant water resources and causes water pollution, solar energy requires little to no water to operate. That means solar power does not pollute water resources, and it also doesn't put a strain on the world's water supply.

Solar power works during drought or heat wave:

Coal, natural gas, and nuclear power use large amounts of water for cooling. During heat waves or severe droughts as we've experienced in recent years, that means electricity generation is at risk. But solar power systems do not require water to generate electricity.

Unique Features of Solar Energy

In addition to major environmental and energy cost benefits, solar energy offers several unique features that make it an extremely attractive option for many home owners, especially those concerned with energy security and independence. Unique benefits of solar power include:

Low maintenance: Solar energy panels require very little maintenance. After solar panels are installed, there is only basic yearly maintenance and cleaning to keep them in good working order. Solar cells have no moving parts, and they stand up well against damage.

Consistent and constant power source: We know that every day the sun will rise and set — and we even know when it will happen. We can even predict weather and seasonal sunlight projections, so it's easy to forecast when power will be plentiful. And often, the sun shines when we need power the most, with most of our electricity consumed when the sun has risen.

Energy security: For homes on the electricity grid, electricity costs are tied to energy prices, which may fluctuate due to market, supply, and even political influences. Traditional electricity homes may also be subject to blackouts and

power failures. But the sun answers to no one and it's available with no limits, offering superior energy security to those who harness its power.

Energy independence: The sun shines whether we're at war or in peace. This offers energy independence. While oil reserves may run out, the sun never will.

Silent operation: Unlike noisy generators and power plants, solar panels make no noise as they create energy from the sun.

Low space requirements: Solar panels do not require much space, and they can be mounted almost anywhere. Most homeowners decide to mount on rooftops, where space is often wasted and it's easy to get sunshine.

Roof protection: It's important that your roof is in good condition when your solar panels are installed, but keep in mind that your solar panels may offer a level of protection. Panels will cover the roof from weather, heat, and sunlight, and some homes may find that areas directly below the installed solar panels have better insulation and remain cooler in summer and warmer in winter.

Off grid living options: In some remote areas, it is extremely expensive (and potentially cost prohibitive) to tap into the electrical power grid. With solar power systems that use a battery backup, home owners can get power off grid, saving money and eliminating the need for local electrical utilities.

Solar panels are built to last: Most solar panels should last for about 25 years — and may even outlast your roof!

Solar energy system inverters often last 10 years or more: While solar inverters don't last as long as the panels themselves, they typically have a usable life span of about 10 years or more.

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