SmidZest

We are the trusted company for
Design I Consultancy I Integration I Supply I
Installation I Commissioning I Maintenance of

Solar Power Plants & other solar products

Where Expertise Meets Execution

www.smidzest.com

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About SmidZest

At **SmidZest**, we specialize in designing, implementing & maintaining customized solar rooftop solutions tailored to meet the unique energy needs residential, commercial clients. industrial and institutional clients.

Our team of experienced engineers and technicians is dedicated to delivering high-quality, turnkey solar systems that maximize energy efficiency, reduce operational costs & help you save more while taking a significant step toward building a sustainable future.

Why Choose SmidZest?

Industry Expertise

With extensive experience in the solar energy sector, our team manages every project from concept to completion, ensuring reliable and efficient execution.

Customized Solutions

We understand that every energy requirement is unique. Our experts work closely with you to design and implement tailored solar solutions that align with your energy goals and budget.

Significant Cost Savings

Harnessing solar energy reduces dependence on traditional electricity sources, leading to substantial long-term savings on your energy bills.

Positive Environmental Impact

Choosing solar demonstrates your commitment to agreener future by significantly lowering your carbon footprint.

Why Go Solar with a Rooftop System?

A solar rooftop photovoltaic (PV) system converts sunlight into electricity directly from your building's roof. It helps meet your property's energy demands efficiently while optimizing available space and capital investment

Key Benefits of Rooftop Solar Systems

- Immediate Reduction in Electricity Bills
- Minimal Maintenance Requirements
- Lower Carbon Footprint
- Increased Property Value
- Long-Term Energy Savings

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From Concept to Commissioning & Beyond

At **SmidZest**, we offer a one-stop solar solution that covers every stage of your solar journey:

ONE STOP SOLUTION

Concept
- Site Assessment
- Energy Audit
- Feasibility Study

Commissioning
- Procurement & Installation
- Project Execution
- System Testing

Beyond
- Operation & Maintenance
- Warranty Support
- Technical Training

Types of Solar Rooftop PV Systems

Solar rooftop photovoltaic systems can be classified into 3 main types:

- On-grid Solar Rooftop PV System
- Off-grid Solar Rooftop PV System
- Hybrid Solar Rooftop PV System

On-grid Solar System

An on-grid solar system is designed to work in synchronization with the utility grid. Solar modules capture sunlight and convert it into direct current (DC) electricity. This DC power is fed into a solar inverter, which converts it into alternating current (AC) power suitable for household or commercial use.

During daylight hours, the AC power generated by the system is first consumed by connected electrical loads. If the power generated exceeds the consumption, the surplus electricity is exported to the utility grid. Conversely, if the power demand is higher than the solar generation, the additional requirement is automatically drawn from the grid.

The system includes an AC distribution board integrated with a bi-directional (Import-Export) energy meter. This meter accurately records the amount of energy imported from and exported to the grid, enabling net metering and energy accounting.

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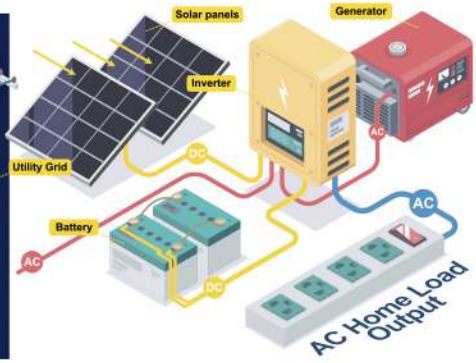
Off-grid Solar System

Independent Power – Anytime, Anywhere

Solar panels generate DC power from sunlight, which is converted to AC by an off-grid inverter. The system stores excess energy in batteries, providing reliable power day and night—completely independent of the utility grid.

- **Deal for: Remote areas, farmhouses, resorts, backup power**
- **Includes battery storage for night-time & outages**
- **Runs critical loads without relying on grid power**



Hybrid Solar System

A hybrid solar system combines the benefits of both on-grid and off-grid systems. Solar panels generate DC electricity, which is converted to AC by a hybrid inverter. During the day, solar power is used to run home appliances. Excess energy is first stored in batteries for backup and the remaining is exported to the grid. When solar power is insufficient, the system draws power from the grid or the battery. In case of a power cut, stored battery power ensures uninterrupted electricity.

- **Combines solar, battery & grid power**
- **Backup during power outages**

Our Services

We offer complete solar solutions:

- Engineering
- Procurement
- Installation
- Monitoring
- After-sales Support

Go solar with confidence we've got you covered from start to finish

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