

Saver Solar (Pvt) Ltd.

The Smart Choice

About Us:

We are a solar **EPC (engineering procurement & construction)** company working since 2020. With expertise in system designs & implementation we provide energy solutions to residential, commercial as well as industrial clients all over Pakistan. We are efficient, quality conscious and customer focused delivering turnkey solutions to bring an energy revolution in Pakistan.

We believe in the power of solar energy to create a brighter future for generations to come. Our Vision is *"To make solar energy accessible and affordable for everyone and to help our clients save money while reducing their environmental impact"*. With the focus on quality, reliability, and exceptional customer service, we take pride in delivering top-quality products and services to our clients. Our team works closely with each client to design customized solutions that meet their unique energy needs and budget requirements.

We are dedicated to promoting the use of solar energy and creating a sustainable future for our planet. Join us in the solar revolution and let us help you harness the power of the sun for a brighter tomorrow.

Our Services:

- Installation
- Monitoring
- After Sales Services
- SBP Green Bank Financing

Our Solutions:

- Residential Solar Solutions
- Commercial Solar Solutions
- Industrial Solar Solutions
- Agricultural Solar Solutions

Certified Company:



Solar Energy:

Solar energy is generated when sunlight is converted into electricity. Sunlight is composed of photons, which are units of light energy. When sunlight reaches the earth, that energy can be captured via solar panels and transformed into usable energy in the form of electricity.

Benefits of Solar Energy:

- Renewable and Sustainable
- Reduces Electricity Bill
- Cost Savings
- Creates Economic Opportunities
- Environmentally Friendly

Comparison of Solar System:

Aspect	Before Installation of Solar System	After Installation of Solar System
Electricity Bills	High monthly bills due to 100% grid usage	Bills significantly reduced (30–90% savings depending on system size)
Power Reliability	Frequent power outages/load shedding	Backup power available through solar + batteries
Cost of Energy	Increasing electricity tariffs over time	Stable, free energy from sunlight after installation
Environmental Impact	High carbon footprint from fossil fuels	Reduced carbon emissions, eco-friendly energy
Initial Investment	No upfront cost (only pay bills)	Requires one-time investment for system installation
Long-Term Savings	No savings, continuous expense	High savings after payback period (1–2 years)
Property Value	Normal property value	Property value increases with solar installation
Independence	Dependent on utility companies	Energy independence and security
Maintenance	No special maintenance required	Minimal maintenance (cleaning panels, battery check)

Total Pump (Faizpur)

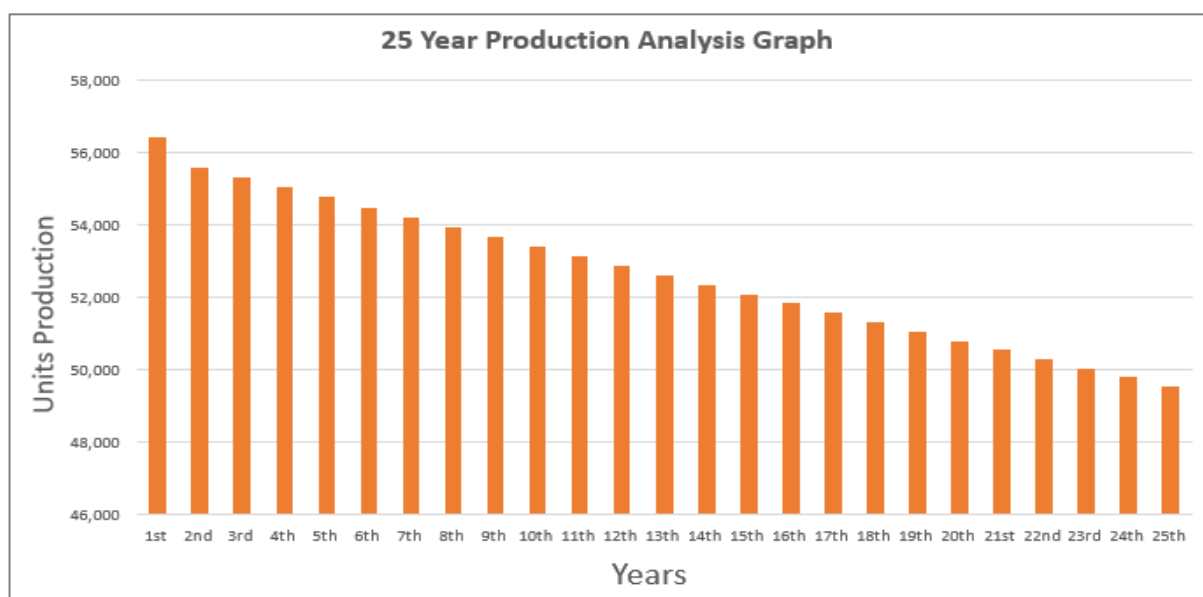
The **40kW hybrid + on-grid solar system** for a petrol pump is designed to ensure uninterrupted power supply, energy efficiency, and reduced operational costs. The system is installed with **Canadian Solar 705W bifacial** panels, which generate higher energy output by capturing sunlight from both sides, enhancing overall system performance throughout the day. Power conversion is managed through a **50kW Growatt on-grid inverter** for efficient grid synchronization, along with an **8kW Nitrox hybrid inverter** paired with a **Pylontech 51 V lithium-ion battery** backup, ensuring continuous power during grid outages and supporting critical load operations. The solar panels are mounted on a **standard aluminium structure**, offering corrosion resistance, structural stability, and optimal tilt for maximum energy generation. This hybrid solar solution provides reliable backup power, supports **net metering**, minimizes fuel and electricity expenses, and delivers a sustainable, low-maintenance energy system ideal for petrol pump operations.



System Analysis:

Avg generation per month	4,700 KWh (Units)
Avg generation per Year	56,500 KWh (Units)
Total Project Cost	5,510,000/- Rs
Payback	1.8 Years
Benefit of Solar System	Up to 23 Years
Total 25-Years Saving	65,844,500/- Rs

Production Graph:



ROI Graph:

