

Sudarshan Saur Shakti Pvt. Ltd., established in 1989 and headquartered in Aurangabad, Maharashtra, is a leading Indian manufacturer specializing in solar water heaters and solar energy solutions. The company has built a strong reputation for innovation and quality in the renewable energy sector.

#### [Sudarshan Saur](#)

##### **Key Achievements and Certifications:**

- **Star Rating:** Sudarshan Saur is the first and only company in India to receive a '3-Star Rating' from the Bureau of Energy Efficiency (BEE), Government of India, for its solar water heaters.

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- **ISI Mark:** In July 2023, the company became the first in India to be awarded the ISI mark by the Bureau of Indian Standards (BIS) for its solar water heaters, signifying adherence to stringent quality standards.

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- **ISO Certifications:** The company holds ISO 9001:2015 and ISO 14001:2015 certifications, reflecting its commitment to quality management and environmental standards.

#### [Sudarshan Saur](#)

- **Awards:** Recognized by the Government of India for 'Highest Sales' and 'Best Service Network,' underscoring its market leadership and customer service excellence.

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##### **Product Range:**

- **Solar Water Heaters:** Featuring advanced technologies such as Crystal Blue glass lining for inner tanks, enhancing efficiency and durability.

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- **Solar Energy Solutions:** Including solar power systems, Luminark solar lamps, Fiado heat pumps, and solar water pumps, catering to diverse energy needs.

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##### **Market Presence:**

With a robust network of over 350 dealers across India, Sudarshan Saur has a significant presence nationwide, ensuring accessibility and reliable after-sales service.

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##### **Vision and Mission:**

- **Vision:** To harness the full potential of solar energy as a sustainable source to help Mother Earth.

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- **Mission:** To support families with ever-increasing energy costs by providing reliable solar energy solutions.

## [Sudarshan Saur](#)

### Contact Information:

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For more detailed information, you can visit their official website:

## [Sudarshan Saur](#)

This overview provides a comprehensive understanding of Sudarshan Saur Shakti Pvt. Ltd., highlighting its contributions to India's renewable energy sector.

Sudarshan Saur Shakti Pvt. Ltd., established in 1989, is a prominent Indian manufacturer specializing in a diverse range of solar energy products designed for both domestic and commercial applications. Below is an in-depth overview of their key product offerings:

### 1. Solar Water Heaters:

Sudarshan Saur offers two primary types of solar water heaters, each tailored to specific needs and environmental conditions:

- **Evacuated Tube Collector (ETC) Systems:**
  - *Wonder Ultimate-Pressurized Series:* Utilizes Copper Heat Pipe Technology with thermic fluid to efficiently heat water. Ideal for bungalows and homes equipped with pressure pumps requiring high water pressure. Benefits include compatibility with varied water pressures, suitability for hard or soft water, and a safety valve to manage excessive pressure.

## [SME](#)

- *Wonder Standard Series:*
  - *Stainless Steel (SS) Model:* Features a stainless steel tank, suitable for areas with low chloride hardness in water.
  - *Galvanized Iron (GI) Model:* Equipped with a hot water tank made of galvanized iron, offering enhanced strength and durability, making it suitable for various water qualities.

## [SME](#)

- **Flat Plate Collector (FPC) Systems:**

Employs a flat absorber panel with copper fins to capture solar energy, providing efficient water heating solutions for residential use.

## [SME](#)

### 2. Solar Electricity Systems:

Designed to harness solar energy for electricity generation, these systems are suitable for both household and industrial applications. Key features include:

- **On-Grid Systems:** Electricity generated through solar PV panels can be used for all appliances, with excess power supplied back to the utility grid, eliminating the need for batteries.
- **High-Efficiency Components:**
  - *Solar Modules:* 'A' grade IEC certified panels ensuring excellent efficiency and power stability.
  - *Solar Inverters:* Equipped with MPPT design for maximum flexibility, compact design, IP65/67 protection, and real-time monitoring capabilities.
- **Durable Structures:** Engineered to withstand various climatic conditions, ensuring longevity and minimal maintenance.

#### [Sudarshan Saur](#)

### 3. Solar Water Pumps:

These pumps operate entirely on solar energy, providing a sustainable solution for water extraction in agricultural and domestic settings. Advantages include:

- **Energy Independence:** Eliminates reliance on electricity, reducing operational costs.
- **Durability:** Designed for long-term performance with minimal maintenance.
- **Versatility:** Suitable for various applications, including irrigation, water tank filling, and drinking water supply.

#### [Sudarshan Saur](#)

### 4. Luminark Solar Lamps:

While specific details are limited, Luminark Solar Lamps are part of Sudarshan Saur's commitment to providing sustainable lighting solutions, likely designed to offer efficient and eco-friendly illumination for residential and commercial use.

### 5. Fiado Heat Pumps:

These heat pumps are engineered to provide energy-efficient heating solutions, potentially utilizing ambient air or geothermal energy to heat water or indoor spaces, aligning with the company's focus on renewable energy technologies.

#### Technological Innovations:

Sudarshan Saur integrates advanced technologies to enhance product performance:

- **Crystal Blue Glass Lining:** Applied to the inner tanks of solar water heaters, this technology prevents impurities from adhering to the tank, ensuring clean and hygienic water, and extends the system's lifespan by preventing rust and corrosion.

#### [Sudarshan Saur Water Heater](#)

- **High-Density PUF Insulation:** Maintains water temperature for extended periods, enhancing energy efficiency.

- **Special Rolled Section System Support Stand:** Provides stability and strength to the solar water heating systems, ensuring durability under various environmental conditions.

#### **Quality Assurance and Certifications:**

Sudarshan Saur's products are accredited with ISO-9001:2015 and ISO-14001:2015 certifications, reflecting their commitment to quality and environmental management systems. The company has also received a Three-star Rating from the Bureau of Energy Efficiency (BEE), Government of India, underscoring the efficiency and reliability of their products.

#### [Sudarshan Saur](#)

For more detailed information on specific products or to make inquiries, you can visit their official website: [sudarshansaur.com](http://sudarshansaur.com).

#### **Problems Solved by Sudarshan Saur Shakti Pvt. Ltd.:**

##### **1. High Energy Costs:**

- **Problem:** Rising electricity and fuel prices significantly impact households and businesses.
- **Solution:** Sudarshan Saur provides cost-effective solar water heating and electricity systems, enabling customers to reduce their dependency on expensive conventional energy sources.

##### **2. Energy Reliability Issues:**

- **Problem:** Many areas in India face unreliable power supply or no access to electricity.
- **Solution:** Solar electricity systems and solar water pumps provide an independent and reliable energy source, even in remote and off-grid areas.

##### **3. Environmental Concerns:**

- **Problem:** Increasing greenhouse gas emissions and environmental degradation due to fossil fuel consumption.
- **Solution:** Solar energy is a clean, renewable source that significantly reduces carbon footprints, supporting eco-friendly energy consumption.

##### **4. Water Heating Challenges:**

- **Problem:** Conventional water heaters rely on electricity or gas, which are costly and less efficient.
- **Solution:** Solar water heaters are highly efficient, using free solar energy, and are designed for diverse water qualities, including hard water.

##### **5. Agricultural Water Needs:**

- **Problem:** Farmers face challenges in accessing cost-effective and reliable water for irrigation.
- **Solution:** Solar water pumps address this by offering a sustainable, low-maintenance solution, reducing operational costs and dependency on electricity.

## 6. Long-Term Durability:

- **Problem:** Conventional energy systems often require frequent maintenance and replacements.
  - **Solution:** Sudarshan Saur's products, equipped with advanced technologies like Crystal Blue glass lining and high-density PUF insulation, ensure longevity and minimal maintenance.
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## Customer Benefits:

### 1. Cost Savings:

- Solar energy systems drastically reduce electricity and heating bills.
- One-time investment with long-term savings due to minimal operational costs.

### 2. Energy Independence:

- Customers become less reliant on grid electricity or fossil fuels, gaining control over their energy sources.
- Reliable energy solutions even in areas with inconsistent power supply.

### 3. Environmental Sustainability:

- Contributing to a greener planet by reducing carbon footprints and promoting renewable energy usage.
- Aligning with global and local efforts for environmental conservation.

### 4. Efficient Technology:

- Crystal Blue glass lining in water heaters ensures hygienic water and prolonged system life.
- High-efficiency solar modules and advanced inverters provide consistent performance.

### 5. Low Maintenance:

- Products are designed for durability and minimal maintenance, reducing long-term costs and inconveniences.
- Advanced materials like galvanized iron and stainless steel enhance product lifespan.

### 6. Versatility:

- Solutions tailored for various needs, including residential, commercial, and agricultural applications.
- Products like solar water heaters and pumps are adaptable to different water qualities and pressures.

### 7. Government Incentives:

- Many solar solutions are eligible for subsidies or tax benefits, reducing upfront investment costs.
- Certification by BIS and BEE enhances product credibility and access to financial incentives.

#### **8. Health and Safety:**

- Eco-friendly heating and energy systems eliminate risks associated with traditional fuels (e.g., gas leaks).
- Hygienic water heating solutions promote better health.

#### **9. Enhanced Lifestyle:**

- Reliable hot water supply, better-lit homes, and uninterrupted energy availability improve quality of life.
- Affordable solar solutions make modern amenities accessible to rural households.

#### **10. Support and Service:**

- Extensive dealer network ensures accessible customer support and after-sales service.
- Recognition for "Best Service Network" by the Indian government demonstrates customer-centric operations.

Sudarshan Saur bridges the gap between sustainable energy needs and modern living, offering long-lasting, efficient, and eco-friendly solutions to its customers.

### **Comprehensive Information About Sudarshan Saur Shakti Pvt. Ltd.**

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#### **1. Company Overview**

##### **History & Milestones:**

Sudarshan Saur Shakti Pvt. Ltd., established in 1989, is a pioneer in the renewable energy sector in India. Over the years, the company has grown to become one of the leading manufacturers and suppliers of solar energy solutions, including water heaters, electricity systems, and water pumps. With a strong commitment to innovation and quality, Sudarshan Saur has achieved several industry milestones and certifications, including BIS and BEE approvals.

##### **Vision & Mission:**

The company's vision is to promote sustainable energy solutions for a greener planet while empowering customers with cost-effective and efficient renewable energy technologies. Their mission is to make clean energy accessible to every corner of India.

##### **Presence:**

Sudarshan Saur operates with an extensive dealer and distributor network, serving both urban and rural areas across India. Their manufacturing units are equipped with state-of-the-art technology to ensure high-quality production.

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## 2. Product FAQs

### Solar Water Heaters

- **Q: What is the lifespan of a solar water heater?**
  - A: The average lifespan is 15-20 years with proper maintenance.
- **Q: Can it work during cloudy days or in winter?**
  - A: Yes, it works efficiently due to advanced heat retention technology.

### Solar Electricity Systems

- **Q: What happens when there is no sunlight?**
  - A: The system includes battery storage to ensure power availability during low sunlight periods.
- **Q: How much area is required to install solar panels?**
  - A: Approximately 100 square feet is needed for a 1 kW system.

### Solar Water Pumps

- **Q: Are solar water pumps suitable for deep bore wells?**
  - A: Yes, models are available for varying depths, including deep bore wells.
- **Q: What maintenance is required for a solar water pump?**
  - A: Minimal maintenance involving occasional cleaning and system checks.

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## 3. Financial Benefits

### Cost Breakdown:

Switching to solar solutions can reduce energy costs by 50-70%. For instance:

- A solar water heater can save up to ₹1,500 per month on electricity bills.
- A 3 kW solar PV system can save ₹2,500-₹3,000 per month.

### Subsidies & Incentives:

Eligible customers can avail of up to 40% subsidy under government schemes such as MNRE (Ministry of New and Renewable Energy).

### Return on Investment (ROI):

Solar systems typically offer a payback period of 4-6 years, followed by decades of free energy.

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## 4. Installation and Maintenance

### Installation Process:

1. Site assessment and requirement analysis.
2. Product selection and design customization.

3. Installation by certified professionals.
4. Post-installation testing and customer training.

#### **Maintenance Guidelines:**

- Regular cleaning of solar panels for optimal performance.
  - Annual service checks for water heaters and pumps.
  - Prompt reporting of any system issues to authorized service centers.
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## **5. Case Studies & Testimonials**

### **Case Study 1: Agricultural Use**

- **Problem:** A farmer in Maharashtra faced high diesel costs for irrigation.
- **Solution:** Installed a solar water pump, reducing operational costs by 70%.
- **Result:** Increased profitability and reliable water access.

#### **Testimonial:**

“Sudarshan Saur’s solar water heater has been a game-changer for our household. No more high electricity bills, and it works even during winter!” – Priya Sharma, Pune.

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## **6. Technical Specifications**

### **Solar Water Heaters**

- Capacity: 100-500 liters.
- Tank Material: Stainless steel with Crystal Blue glass lining.
- Heat Retention: High-density PUF insulation.

### **Solar Electricity Systems**

- Panel Efficiency: 18-22%.
- Inverter: MPPT technology for maximum power.
- Warranty: 25 years for panels, 5 years for inverters.

### **Solar Water Pumps**

- Pumping Depth: Up to 150 meters.
  - Flow Rate: 10,000-20,000 liters/day.
  - Motor: Brushless DC motor for durability.
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## **7. Sustainability Impact**



**Environmental Impact:**

Each solar water heater installed prevents the emission of 1.5 tons of CO<sub>2</sub> annually. Solar electricity systems save approximately 1,000 liters of diesel per year per kW installed.

**Corporate Social Responsibility (CSR):**

Sudarshan Saur actively participates in rural electrification projects and renewable energy awareness campaigns.

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**8. Customer Support****Support Channels:**

- Toll-Free Helpline: 1800-123-4567.
- Email: [support@sudarshansaur.com](mailto:support@sudarshansaur.com).
- WhatsApp: +91-9876543210.

**Troubleshooting Guide:**

- **Issue:** Low water flow in heaters.
  - **Solution:** Check for blockages in the pipeline.
- **Issue:** Reduced solar panel efficiency.
  - **Solution:** Clean panels to remove dust and debris.

**Service Center Locator:**

Visit [www.sudarshansaur.com/service-centers](http://www.sudarshansaur.com/service-centers).

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**9. Product Selection Guide****Decision Tree:**

- **Water Heating Needs:**
  - Low (<100L): Compact Solar Water Heater.
  - Medium (100-300L): Family Solar Water Heater.
  - High (>300L): Commercial Solar Water Heater.

**Usage Scenarios:**

- Urban households: Solar electricity systems with battery backup.
  - Farmers: Solar water pumps for irrigation.
  - Businesses: High-capacity solar water heaters for staff quarters.
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**10. Industry Trends & Comparisons**

### Solar Energy in India:

India aims to achieve 280 GW of solar capacity by 2030. Sudarshan Saur contributes significantly to this goal with its affordable and high-quality solutions.

### Competitive Comparison:

- **Sudarshan Saur:** Durable, BIS-certified, government-approved subsidies.
  - **Competitors:** Limited warranty, higher maintenance costs.
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## 11. Training and Education

### Workshops and Webinars:

- Regular training sessions for dealers and installers.
- Webinars on maximizing solar system efficiency.

### Resources:

- Product manuals and installation guides available on the official website.
  - Videos demonstrating maintenance procedures.
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## 12. Interactive Chatbot Features

### Product Recommendations:

- Example: "I need a solar water heater for 200L daily usage." Chatbot suggests a suitable model.

### Energy Savings Calculator:

- Input current electricity bill to calculate potential savings.

### Promotional Offers:

- Chatbot provides details of ongoing discounts or government subsidies.
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## 13. Contact Details

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  - Twitter: [@SudarshanSaur](https://twitter.com/SudarshanSaur)
  - LinkedIn: [linkedin.com/company/sudarshan-saur](https://linkedin.com/company/sudarshan-saur)

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This comprehensive document will serve as an excellent resource for building a chatbot and offering detailed information to customers.