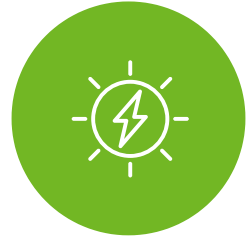




**STAR ELECTRIC**  
Spreading light to millions

# The Future Of **SOLAR** **ENERGY**

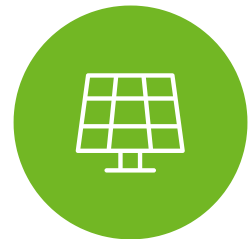
*Transforming Tomorrow  
with Solar Solutions.*



Reduce Your  
Carbon Footprint



Increase the value  
of your home or  
business



Low maintenance  
and long lasting







## About Us

Star Electric Private Limited, is one of India's pioneering turnkey Solar PV Power Project companies.

With its corporate headquarters located near Mumbai, Maharashtra, the financial capital of India, the company specializes in Residential, Commercial, Industrial, and Utility-scale projects. Operating under both the CAPEX and RESCO models,

Star Electric Solar Energy has a strong presence across the world.

## Our Values

- ✓ Transparency
- ✓ Reliability
- ✓ Sustainability
- ✓ Flexibility

## Vision & Mission

Star Electric is committed to designing and delivering high-quality, affordable, and easy-to-maintain solar power and solar thermal solutions. Tailored for domestic, commercial, and industrial customers, these solutions aim to reduce reliance on conventional, costlier energy sources, helping clients lower energy costs while contributing to a greener tomorrow.

## THE SOLUTION WE OFFER

### Solar EPC Solution

- **Residential:** Off-grid and on-grid solar solutions for urban domestic and rural consumers.
- **Commercial:** Off-grid and on-grid solar systems for hotels, hospitals, educational institutions, and PSUs.
- **Industrial:** Tailored solar solutions for diverse industries including textile, paper, automotive, brewing, sugar, and more.

### Solar Power:

Comprehensive solar power solutions such as home and street lighting, solar lanterns, solar pumps, and rooftop systems (both on-grid and off-grid).

### Solar Thermal:

Advanced solar water heating solutions.

### Rural Home Lighting:

Solar power packs designed for rural home lighting needs.

### Decentralized Power Generation:

Comprehensive solar power solutions such as home and street lighting, solar lanterns, solar pumps, and rooftop systems (both on-grid and off-grid).

### Wind-Solar Hybrid:

Integrated wind and solar hybrid energy solutions for generation and optimization.

### Contact Us

☎ 022-26203535 /3636, +91 9820633175

### Website

🌐 [www.starelectric.in](http://www.starelectric.in)

### Email

✉ [info@startraders.co](mailto:info@startraders.co)



# WHAT WE DO?

## How Our Solutions Will Help

Our solutions enable customers to reduce electricity and power expenses by replacing expensive energy sources such as grid electricity, diesel, and kerosene.

By utilizing clean and renewable energy, our solutions contribute to lowering global warming and creating a greener, more sustainable environment.

## Scope of Work

Our Organization is fully equipped to manage projects of all sizes, ranging from 1kW to 200MW and beyond. Through partnerships with leading solar equipment manufacturers and suppliers in India, the US, and Europe, we assist clients in selecting the most suitable solar panels, battery backup systems, mounting structures, and accessories.

Additionally, we facilitate approvals, subsidies, and incentives from relevant government authorities. Our commitment extends to providing comprehensive after-sales support for all projects.

## Site Selection

We offer both government and private land options tailored to the specific requirements of Solar Project Developers (SPD) and clients. Our site selection process considers key technical aspects, including connectivity, terrain, and soil type, to ensure optimal project setup. Additionally, we conduct in-depth radiation and generation analysis based on solar radiation availability and the chosen solar technology to maximize efficiency and performance.

## Power Evacuation (PE) System Planning

The PE system planning includes identifying the nearest suitable power evacuation (PE) point for interconnection with the State Transmission Utility (STU) at voltage levels of 33/66/132 kV or higher, ensuring it is not a distribution sub-station. A comprehensive PE scheme is prepared, including a schematic diagram and technical specifications outlining the connection from the Solar PV Project pooling station to the receiving Grid Sub-station.



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## Engineering and Design

- Development of layout plans, single-line diagrams, CAD models, and essential engineering drawings.
- Creation of erection key diagrams, electrical and physical clearance diagrams, and design calculations for Earth-mat, Bus Bar, Spacers, and indoor/outdoor lighting systems.
- Detailed engineering of all project components, including the protection system, switchyard, switchgear, cabling system, and LV & DC systems.
- Preparation of all site execution drawings and documentation related to electrical, mechanical, and civil installations.

## Procurement Assistance and Material Inspection

- Developing technical specifications for all components, materials, and parts required for solar power plant installation.
- Sourcing and negotiating with vendors to secure the best possible pricing for materials. Overseeing procurement while ensuring that all components meet relevant international certification standards.
- Deploying engineers on-site to ensure the quality and timely delivery of materials in accordance with the original contract specifications.

## Engineering and Construction Supervision

- Planning, as well as conducting both basic and detailed engineering for the entire system.
- Preparing execution drawings and documentation, reviewing vendor drawings, and incorporating them into the system for optimal efficiency.
- Approving all interconnection systems to ensure seamless integration.
- Managing project timelines by overseeing engineering, procurement, erection, pre-commissioning, and commissioning activities.
- Supervising and ensuring quality control at the project site throughout the execution phase.

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# Services, Operations & Risk Management


- Development of a comprehensive site plan.
- Calculation of solar resources and environmental factors.
- Shading assessment, considering the horizon, nearby structures, and objects.
- Identification of suitable areas for PV development and optimal layout planning.
- Evaluation of technology options to maximize cost benefits for the project location, including:
  - Module selection.
  - Mounting system choice.
  - Preliminary system design.
- Application for initial planning permissions.
- Detailed assessment of grid connection feasibility, including cost estimates and timelines.
- Prediction of energy yields and financial modeling.
- Preparation and submission of permit applications for the proposed solar PV project.
- Submission of grid connection applications.
- Review and revision of design and planning approvals.
- Decision-making on contracting strategy (turnkey EPC contract or multi-contract approach).
- Selection of a financing strategy.
- Preparation of solar PV module tender documents.
- Supplier evaluation, selection, and ranking.
- Preparation of construction tender documents and contractor selection.
- Contract negotiations.
- Completion of a bankable energy yield assessment.
- Development of a financial model covering the entire project lifecycle.
- Conducting a thorough project risk analysis.
- Environmental impact assessment.
- Compilation of a detailed project report.
- Securing financing for the project.

## Quality Policy

We firmly believe that our clients are an integral part of our business family. We are committed to providing wholehearted support throughout the entire project lifecycle, in any form necessary. Every level of the SES organization is dedicated to meeting and exceeding our clients' needs.



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