

RAYSTEEDS ENERGY

Delivering excellence for Sustainable Future!



TECHNO-COMMERCIAL PROPOSAL

GRID-CONNECTED GROUND MOUNT SOLAR POWER PLANT

www.raysteedsenergy.com







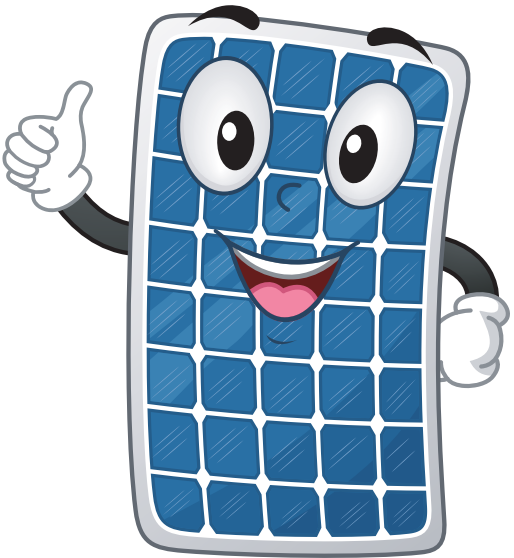
WHAT IS GRID CONNECTED GROUND MOUNT SOLAR POWER PLANT?

The solar power sector in India has emerged as a fast upcoming section in the last few years. It supports the nation's agenda of sustainable growth, while, emerging as an integral part of the solution to meet the nation's energy needs and an essential player for energy security. India has achieved 4th rank in the world in solar power deployment.

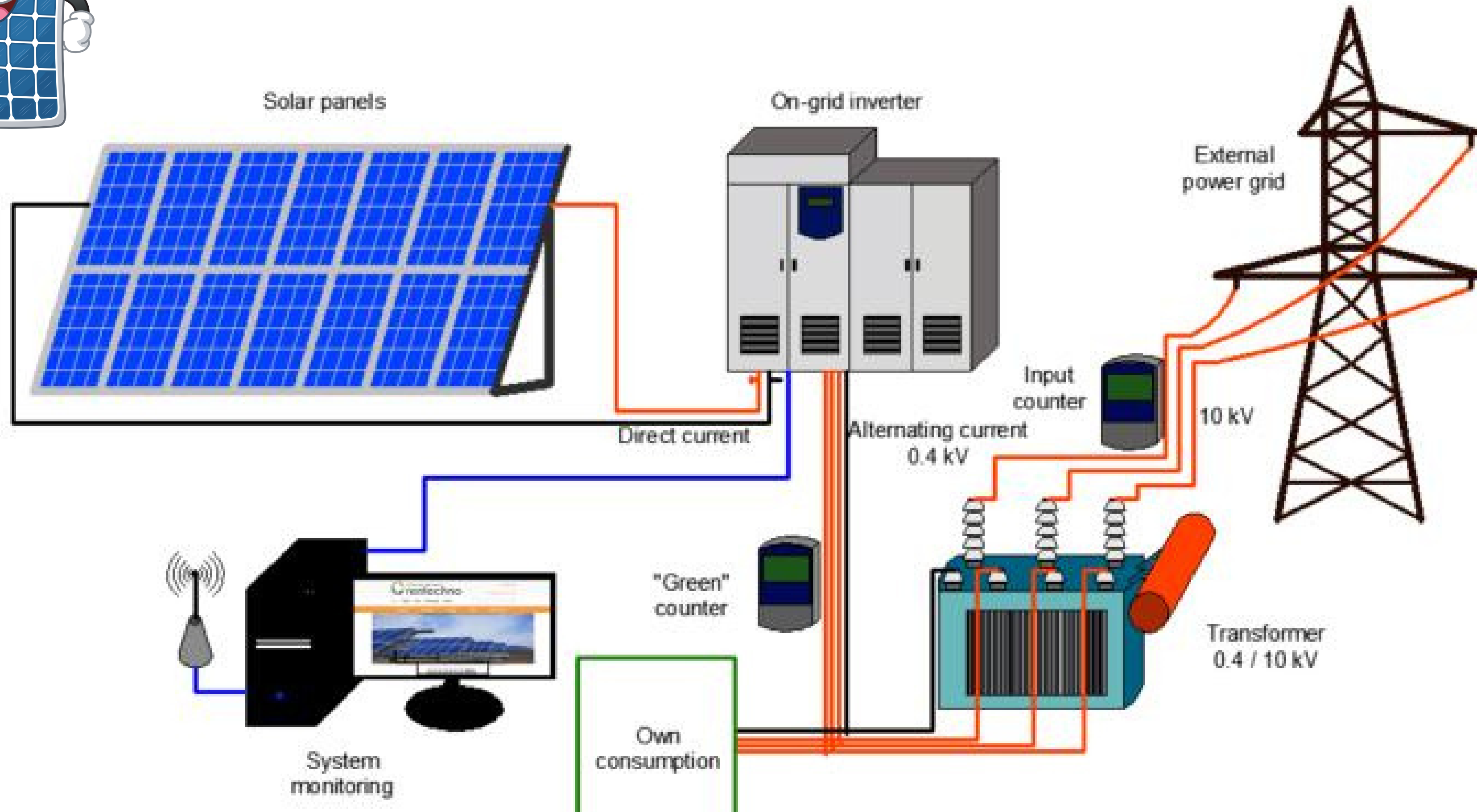
A grid-connected ground-mounted solar power plant refers to a large-scale solar energy system that is installed on the ground and connected directly to the electrical grid. It is designed to generate electricity on a significant scale and supply it to the Utility grid.

Grid-connected ground-mounted solar power plants provide a significant contribution to renewable energy generation, enabling the integration of clean and sustainable electricity into the grid. They are often deployed in areas with ample open space, favorable solar irradiance, and appropriate grid infrastructure to support large-scale solar installations.





Solar System Explained



What advantages of solar power plants

- **A photovoltaic power system is carbon negative over its lifespan. Long-term energy and ecological security by the reduction in carbon emission. Contribute to a clean and green environment.**
- **Minimum maintenance of the system.**
- **The solar system is silent because they don't produce sound hence it doesn't create noise pollution.**
- **Solar reduces the need for finite sources, unlike other conventional-based power-generating systems.**
- **Meeting of the Renewable Purchase Obligations (RPOs) of obligated entities.**
- **Better management of daytime peak loads by DISCOM/ utility.**
- **Economies of Scale: Due to their larger size, ground-mounted solar power plants can benefit from economies of scale in terms of procurement, installation, and maintenance. This can lead to lower per-unit costs, making the solar power plant more cost-effective.**
- **Grid Integration and Net Metering: Being directly connected to the grid, ground-mounted solar power plants can easily feed excess electricity back into the grid. This allows for net metering or feed-in tariff arrangements, where owners can earn credits or revenue for the surplus energy generated.**



**Grid-
connected
Ground
Mount solar
power plant**



Empowering Your Solar Journey: Comprehensive End-to-End Turnkey Solutions

We provide end-to-end turnkey-based services from the first stage to the last stage. We streamline the process for our customers and provide them with a comprehensive solution, making it easier for them to adopt solar energy and realize the benefits of grid-connected ground-mounted solar power plants.



**Project Management
Concultyancy**



Design & Engineering



**Engineering Procurement
& Construction**



**Operation &
Maintenance**



Project Management Consultancy

Solar power project development services refer to the process of planning, designing, and implementing solar energy systems for all types of solar applications. These services typically involve a range of activities, including site selection, engineering and design, financial analysis, project management, and installation.

Site Assessment

Quality Assurance & Compliance

Project Planning

Stakeholder Communication

Risk Management

Technical & Financial Support





Design & Engineering

Design and engineering services are a crucial part of any solar power plant project. They involve the process of creating a detailed and customized plan for the solar power plant, encompassing various aspects such as system layout, electrical design, structural analysis, and equipment selection.

System Layout

Energy Yield Estimation

Electrical Design

Performance Modeling

Structural Analysis

System Optimization & Efficiency





EPC (Engineering Procurement & Construction)

Engineering, Procurement, and Construction (EPC) services for solar power plants refer to the end-to-end solution that a company provides for the installation of a solar power plant. It includes the entire process from designing and engineering the solar plant to procuring the necessary materials and constructing the plant on-site. It is basically the complete project execution process, from the conceptualization of a solar power plant to its commissioning

Engineering

Testing & Commissioning

Procurement

Project Management

Construction

Project compliances





Operation & Maintenance

Operation and maintenance (O&M) services for solar power plants refer to the ongoing activities and tasks necessary to ensure the smooth operation, optimal performance, and longevity of the solar energy system. These services are essential for maximizing energy production, minimizing downtime, and extending the lifespan of the solar power plant.

Performance monitoring

Preventive maintenance

Repairs and replacements

System upgrades

Monitoring and management

Performance analysis and reporting



Choosing Raysteeds Energy as your EPC

Partner

Ray-Steeds Energy Private Limited Company is a prominent player in the renewable energy sector. Our company offers cost-effective and highly efficient solutions and consultancy for a wide range of renewable energy projects, including utility-scale solar power plants.



Expertise & Experience

Turnkey Solutions

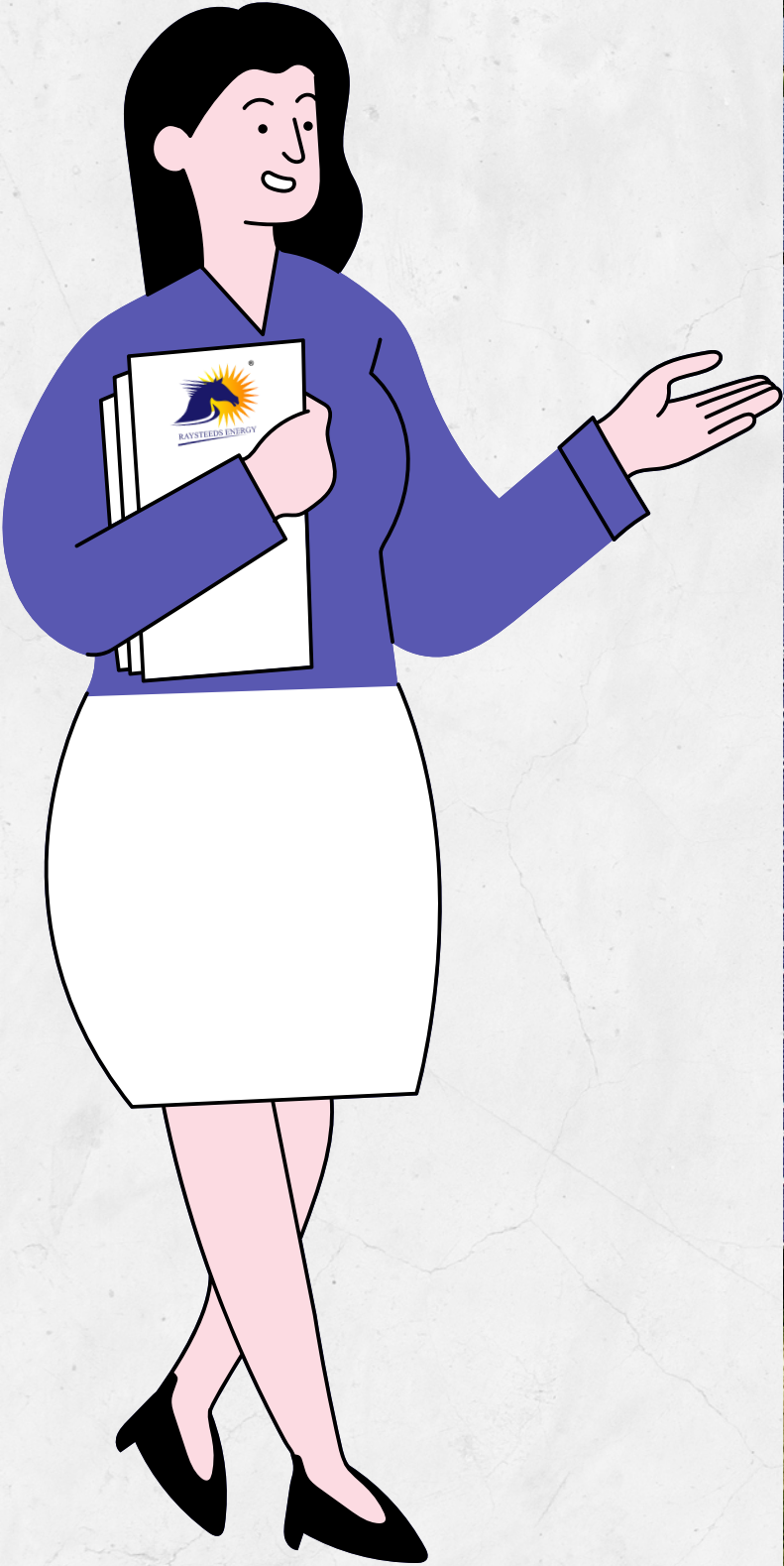
Quality & Reliability

Customized Solutions

Customer Support

Sustainability & Environmental Impact

**Grid-
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Ground
Mount solar
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**The sun's
power brings
happiness!**



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