

NILVIT

ENERGIES PRIVATE LIMITED

Engineering power infrastructure & Renewable energy solution.

- We deal into supply of Electrical Equipment , also we serve in the field of Electrical Field Survey and Erection in power distribution, substation projects, solar projects and BESS.

- **Delivering high-quality transfomer and transformer tanks**
- **Providing efficient and sustainable solar power**

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ABOUT US:

We deal into supply of Electrical Equipment , also we serve in the field of Electrical Field Survey and Erection in power distribution, substation projects, solar projects and BESS.

NilVit energies is one of the most prominent and trusted Marketing and Liasoning Consultants for corporates particularly in Energy & Power Sectors. We do take care of the Vendor Approval, Drawing-GTP Approval, Tender Participation and Direct Supply liasoning in Electricity & other State and Central utilities and also to get the orders from some of the largest and trustworthy private companies for our valued clients.



VISION:

To become a trusted global leader in renewable energy and power infrastructure solutions, empowering industries and communities with sustainable, intelligent, and future-ready energy systems.

MISSION:

Our mission is to deliver high-quality solar EPC, Battery Energy Storage Systems (BESS), and electrical infrastructure solutions that help businesses reduce energy costs, improve reliability, and achieve their sustainability goals through innovation, quality, and customer-centric execution

OUR STRENGTH:

our strength lies in combining technical expertise, quality-driven execution, and innovative energy solutions. From Solar EPC and Battery Energy Storage Systems (BESS) to electrical infrastructure solutions, we deliver projects that are efficient, reliable, and built for long-term performance. Our commitment to excellence, customer satisfaction, and sustainable development enables us to create lasting value for every client.

WHAT WE DELIVER:

we deliver comprehensive energy solutions designed to improve efficiency, reliability, and sustainability. From Solar EPC projects and Battery Energy Storage Systems (BESS) to electrical infrastructure solutions, we provide end-to-end services that help businesses optimize energy consumption, reduce operational costs, and achieve long-term energy security.

OUR IMPACT:

we deliver comprehensive energy solutions designed to improve efficiency, reliability, and sustainability. From Solar EPC projects and Battery Energy Storage Systems (BESS) to electrical infrastructure solutions, we provide end-to-end services that help businesses optimize energy consumption, reduce operational costs, and achieve long-term energy security.

- End-to-End Project Execution
- Customized solar structures
- Experienced Technical Team
- Rooftop & Ground Mount Expertise
- GEDA Approved Vendor
- BESS Solution





- Oil Cooled Transformer
- Dry Type Transformer
- Instrumental Transformer
- Transmission Line Hardware
- Electrical equipment for Power Distribution

SOLAR EPC DIVISION:

RELIABLE SOLAR EPC SOLUTION

At NilVit Energies Pvt. Ltd., solar power is where our journey began. With over almost 10 years of experience in designing and executing solar power plants across India, we provide complete EPC (Engineering, Procurement & Construction) services for on-grid, off-grid, and hybrid solar systems.

The range from small scale **10kW** Commerical Projects to **Multi MW Industrial Projects.**



CORE AREAS OF EXPERTISE:

- Rooftop and Ground-Mounted Solar Power Plants
- On-Grid, Off-Grid & Hybrid Configurations
- System Design & Engineering with Structural Analysis
- DC/AC Electrical Design, Cabling, and Earthing Systems
- Inverter and BOS (Balance of System) Selection
- Civil Work & Mounting Structures
- Net-Metering Documentation and Liaison
- Operation & Maintenance (O&M) Services

INTEGRATED HYBRID SOLUTIONS:

- One of our key strengths is our ability to integrate solar generation with in-house BESS (Battery Energy Storage Systems) and smart EMS (Energy Management Systems).
- Achieve partial or complete grid independence
- Reduce peak demand charges
- Maintain seamless power during outages
- Optimise energy utilisation through real-time monitoring

OUR EPC PROCESS:

- Site Assessment & Feasibility: Loan study, shadow analysis, and financial feasibility evaluation.
- System Design & Engineering: Detailed design using simulation software to ensure optimal tilt, orientation, and yield.
- Procurement: Sourcing of quality-approved modules, inverters, cables, and BOS components.
- Site Assessment & Feasibility: Load study, shadow analysis, and financial feasibility evaluation.
- Installation & Commissioning: Supervised by qualified engineers with strict safety protocols.
- Testing & Handover: Comprehensive performance verification and documentation. O&M & Monitoring: Annual maintenance contracts with generation tracking and periodic audits.

WHY CHOOSE NILVIT ENERGIES :

- Proven record of industrial and commercial projects executed across Gujarat and neighbouring states.
- Hybrid-ready systems that can be upgraded with storage at any stage.
- Use of Tier-1 solar modules and reputed inverter brands for long-term reliability.
- End-to-end project ownership-design, supply, installation, and service under one roof.
- Expertise in DISCOM coordination, subsidies, and grid interconnections.
- Focus on aesthetics, cable management, and safety compliance during installation.

BATTERY ENERGY STORAGE SYSTEM (BESS):

Designed, Engineered & Made in India As India moves toward decentralised and renewable power, energy storage has become the cornerstone of sustainable infrastructure. designs and manufactures Battery Energy Storage Systems (BESS) that ensure uninterrupted, high-quality power and smart energy utilisation.

Our systems range from compact modular units for small facilities to multi-megawatt (MWh) containerised solutions for industries, commercial complexes, and utilities. Every unit is custom-built to meet site-specific energy demands and environmental conditions.



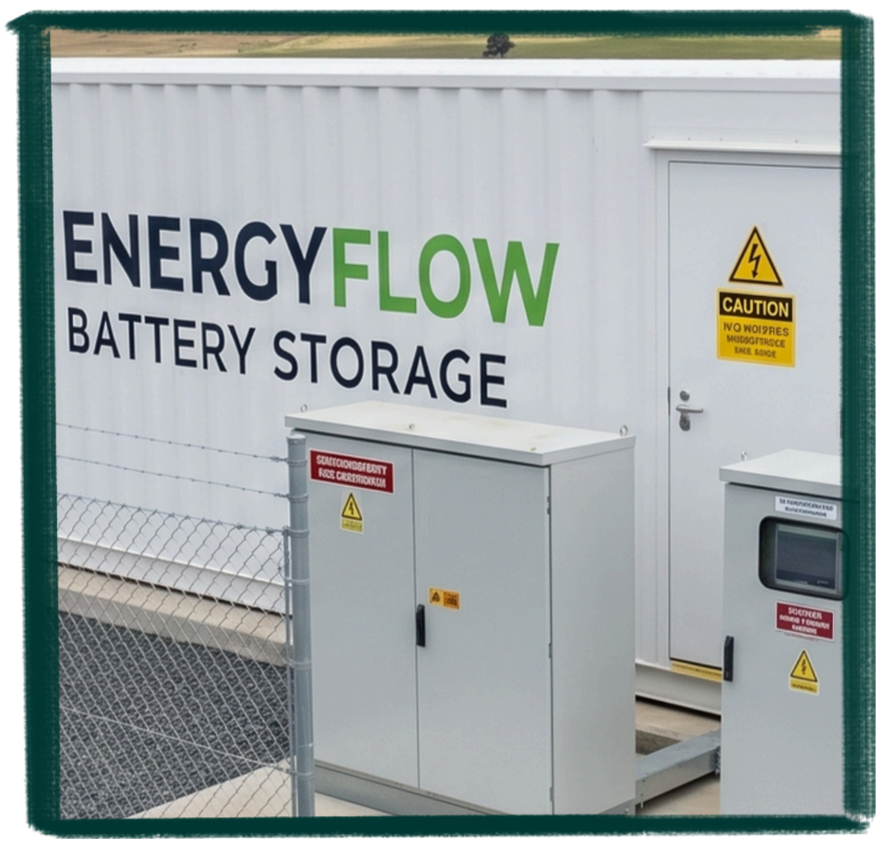
OUR OFFERINGS:

- Modular BESS Units (5 kWh-1000 kWh)
- Custom Large-Scale Systems (1-5 MWh or as required)
- Hybrid, Off-grid, and Peak Shaving Systems
- Integrated EMS (Energy Management System) with remote control
- Custom Cabinets, Racks, and Containerised Enclosures
- Turnkey delivery including installation and commissioning

WHY CHOOSE NILVIT ENERGIES:

- In-house design, manufacturing, and testing facility.
- Modular, scalable architecture for future expansion.
- Advanced BMS ensures longer battery life and safety.
- Smart EMS enables real-time performance tracking
- Made in India with components suitable for Indian grid challenges.

Parameter	Specification
Battery Type	LiFePO4(LFP)
Voltage Range	48V /96V / 120V / Custom
Capacity Range	5kWh to Multi-MWh
Efficiency	>95%(Round-trip)
Life cycle	4000-6000
Protection	Over-charge, Thermal, Short Circuit
Application	Industrial, Commercial, Institutional, EV Hubs, Solar Hybrid System



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