COMPANY PROFILE

MISHAY POWER INFRA LLP

Life to Clean & Sustainable Energy

MISHAY
POWER INFRA

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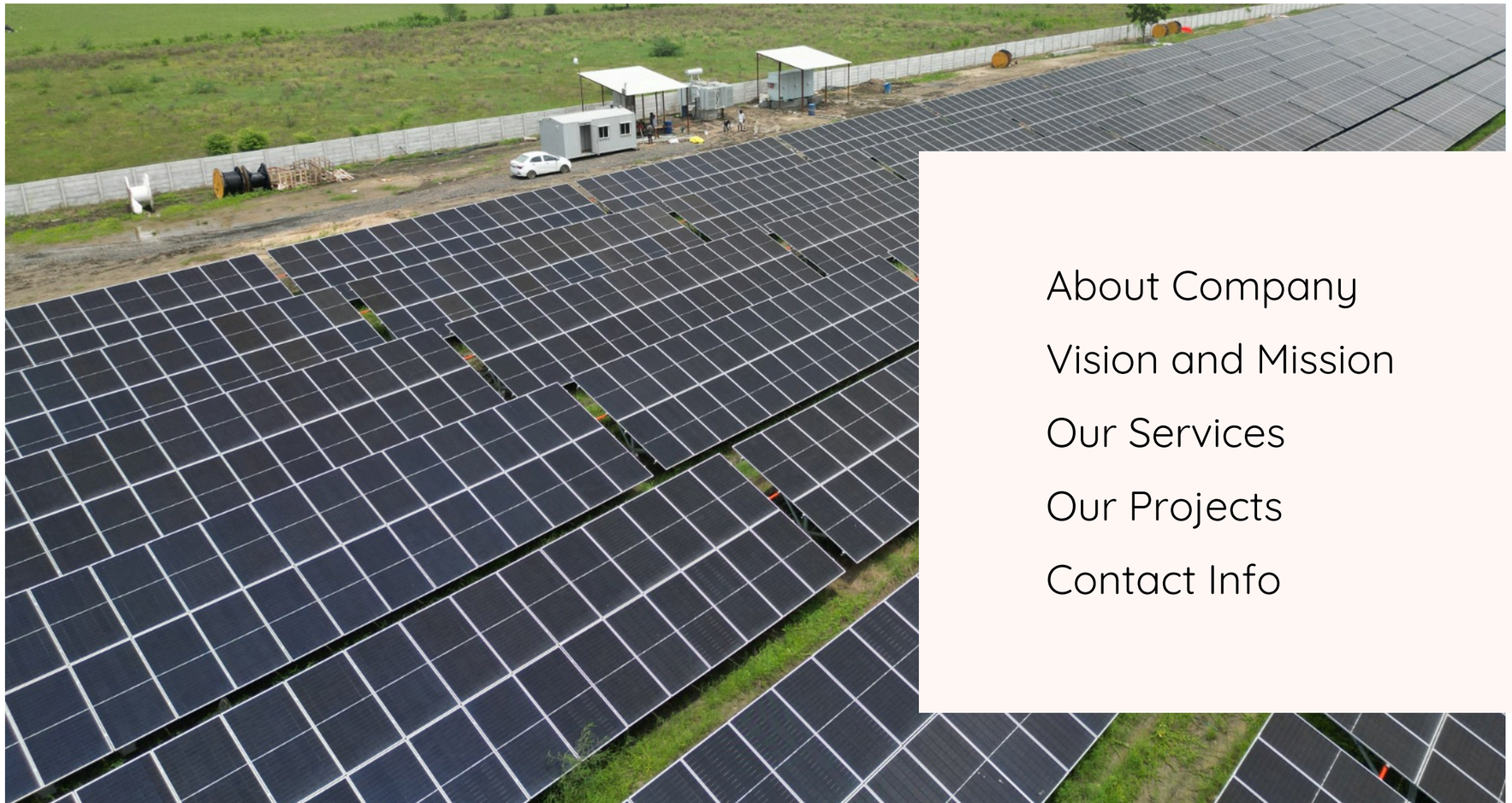

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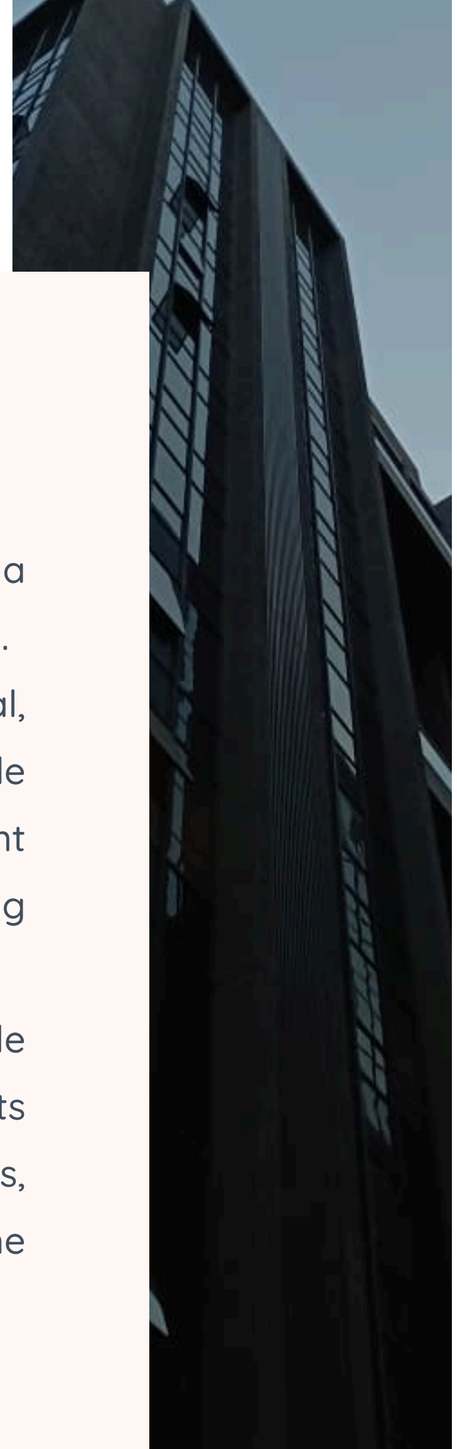
ABOUT COMPANY

Mishay Power Infra LLP, established in 2020 in Ahmedabad, Gujarat, is a leading Solar EPC and solar power plant manufacturing company in India. We provide cost-effective and high-quality solar solutions for residential, commercial, industrial, and utility-scale projects. Our services also include sustainable energy consulting, electrical power trading, solar PV plant operations and maintenance (O&M), and comprehensive energy planning for large industries.

Company is also engaged in Research & Development for Sustainable Energy, Battery Energy Storage System and Innovation in Smart Gadgets for smart Grid systems. The Company supply electrical power apparatus, solar power plant components and Energy Storage System across the Globe.



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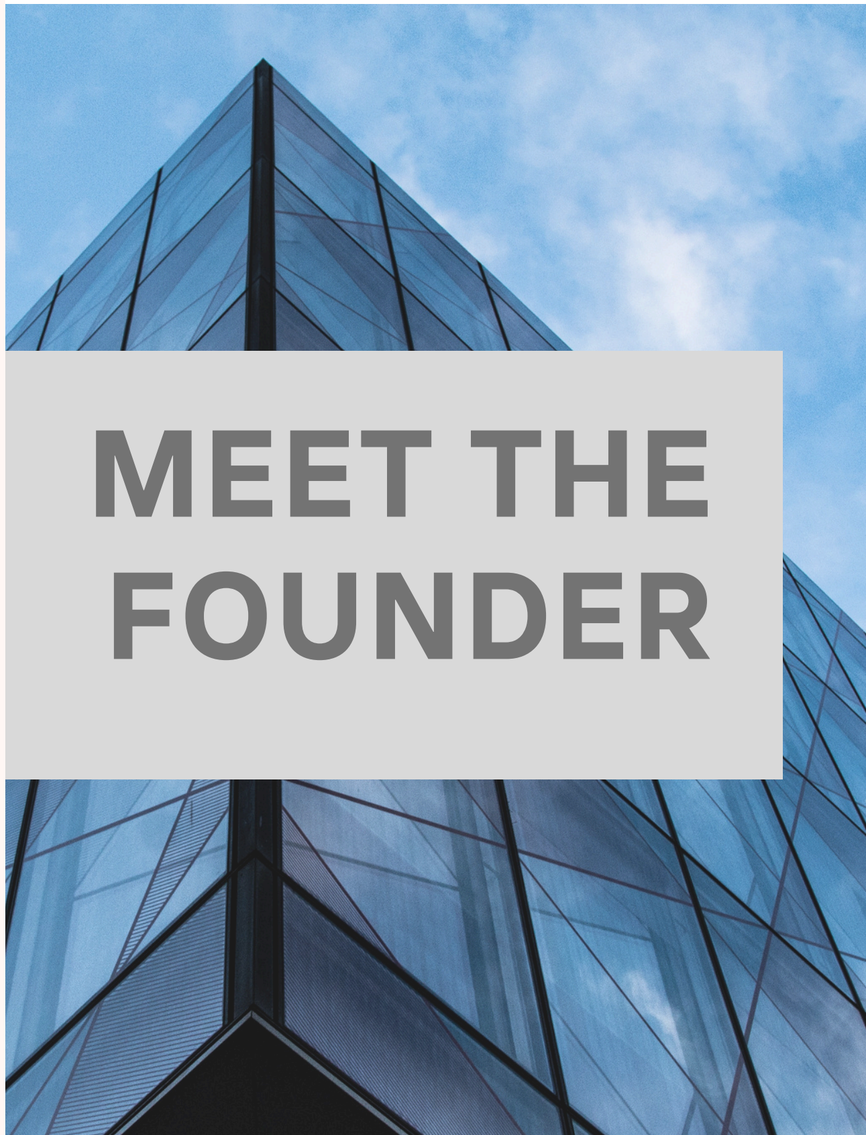
Jugal Lotiya

Mr Jugal Lotiya is an competent entrepreneur, speaker and independent researcher in area of Electrical Power System. He was awarded for successful entrepreneur in year 2022. He has done Post graduate (M.Tech) in Electrical Power System from Nirma Univesity, Ahmedabad (India).

Having 13+ years of experience in Design, Infrastructure Development, Erection and Commissioning of Grid Connected Solar PV Power Plant, specially Utility Scale Ground Mounted Solar Plants as we as Industrial Rooftop System, AC Switchgears (LT & HT), Design and execution of HT Lines.(up to 66 KV)

Expertise: Utility scale SPV Project Design, Execution, Distribution & Transmission network (up to 66 KV)

Integration between Renewable Power Generators and AC grids.



MEET THE FOUNDER

OUR VISION

Our Vision is to become a global, value-driven organization and the preferred partner for innovative solutions in Renewable Energy, Information Technology, and Management.

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OUR MISSION

We consistently deliver innovative and sustainable solutions to our clients, building long-term relationships founded on trust and the value we provide. We focus on delivering reliable, high-quality services that meet changing industry needs. We aim to create real impact through technical excellence, clear communication, and continuous improvement.

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OUR SERVICES

01 **SERVICE 01**

Solar Energy Solutions

02 **SERVICE 02**

Power Transmission & Distribution

03 **SERVICE 03**

Research & Development

04 **SERVICE 04**

Energy Accounting & Consultation

05 **SERVICE 05**

BESS & BMS Solutions

ENGINEERING, PROCUREMENT & CONSTRUCTION FLOW

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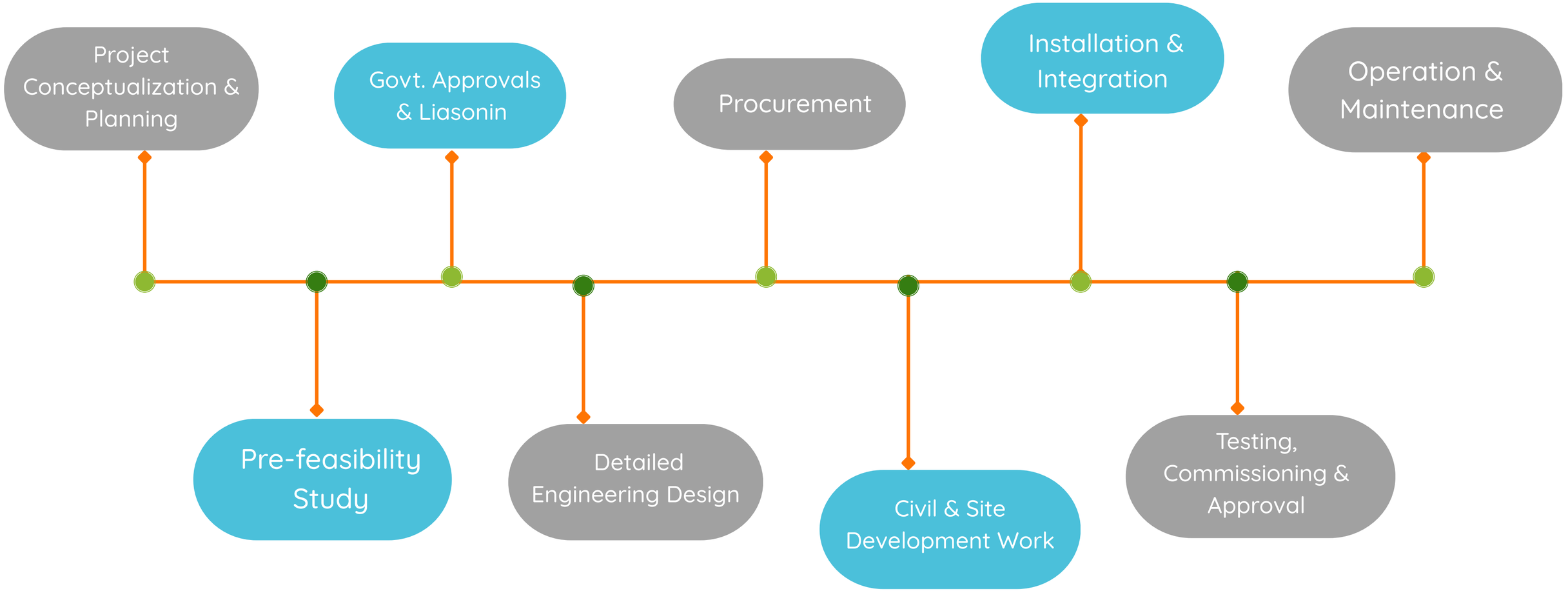

SOLAR ON-GRID SYSTEM

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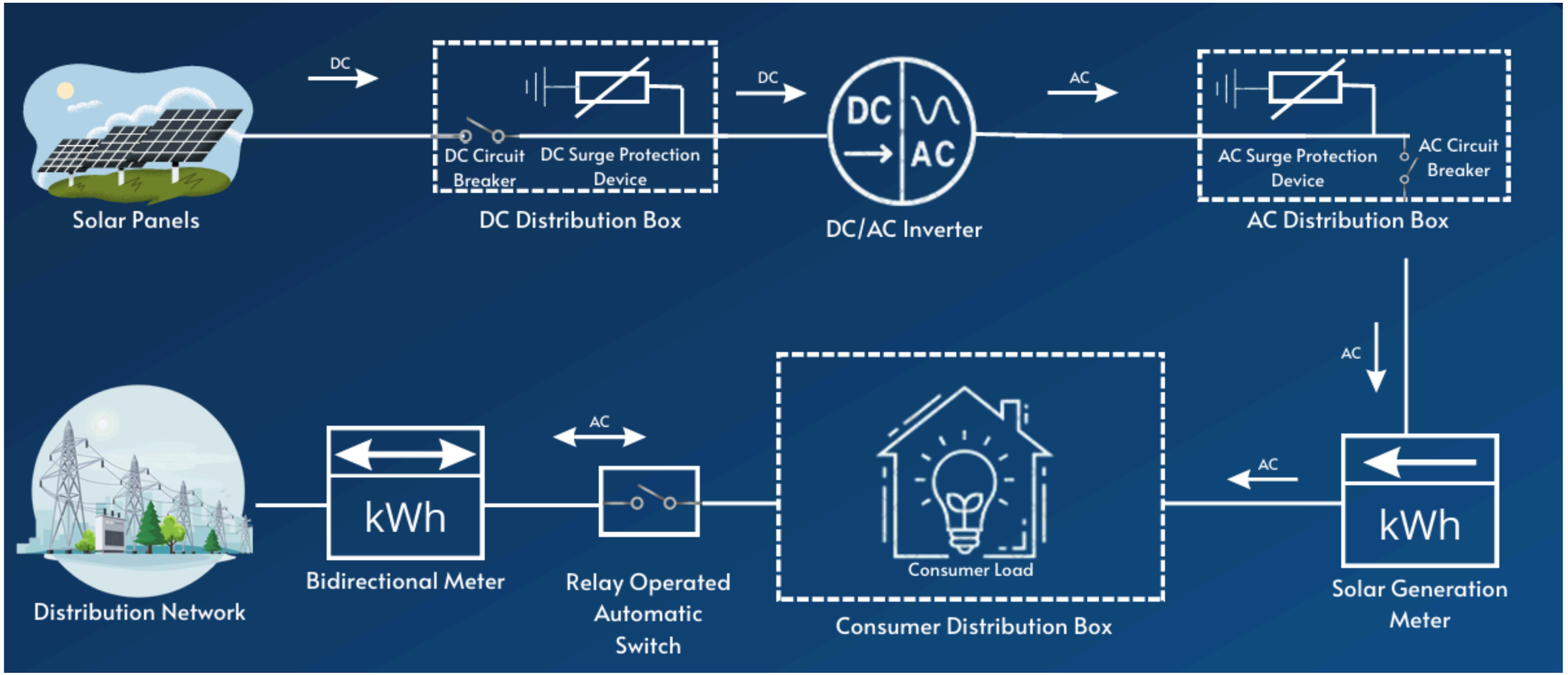

SOLAR ON-GRID SYSTEM

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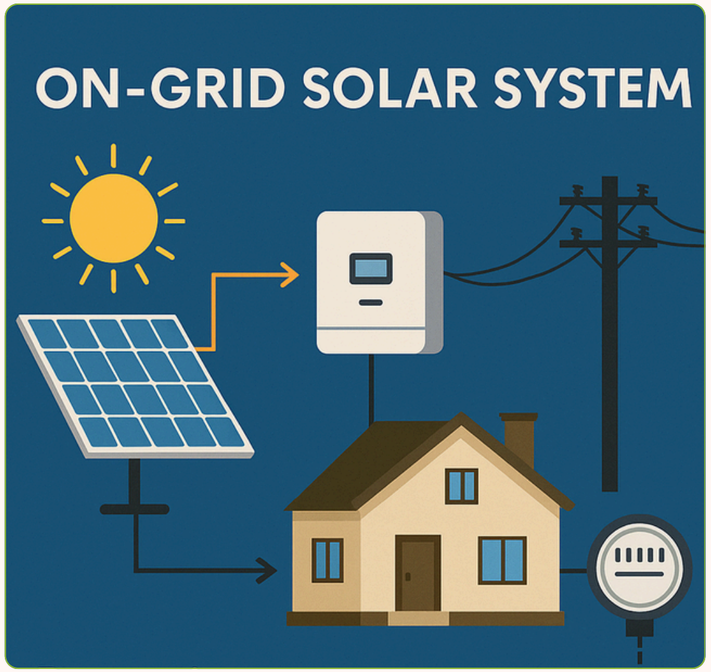
An on-grid solar system, also known as a grid-tied solar system, is a solar power system that is directly connected to the local electricity grid. It allows users to generate electricity from solar panels and use it to power their homes or businesses, while also having the ability to draw power from the grid when needed or send excess energy back to the grid.

- **Domestic:** Powers homes and reduces household electricity bills
- **Commercial:** Used in offices or malls to reduce business energy costs
- **Industrial:** Supports factories with high power demands
- **Utility Scale:** Large solar farms that supply power to the main grid



SOLAR HYBRID SYSTEM

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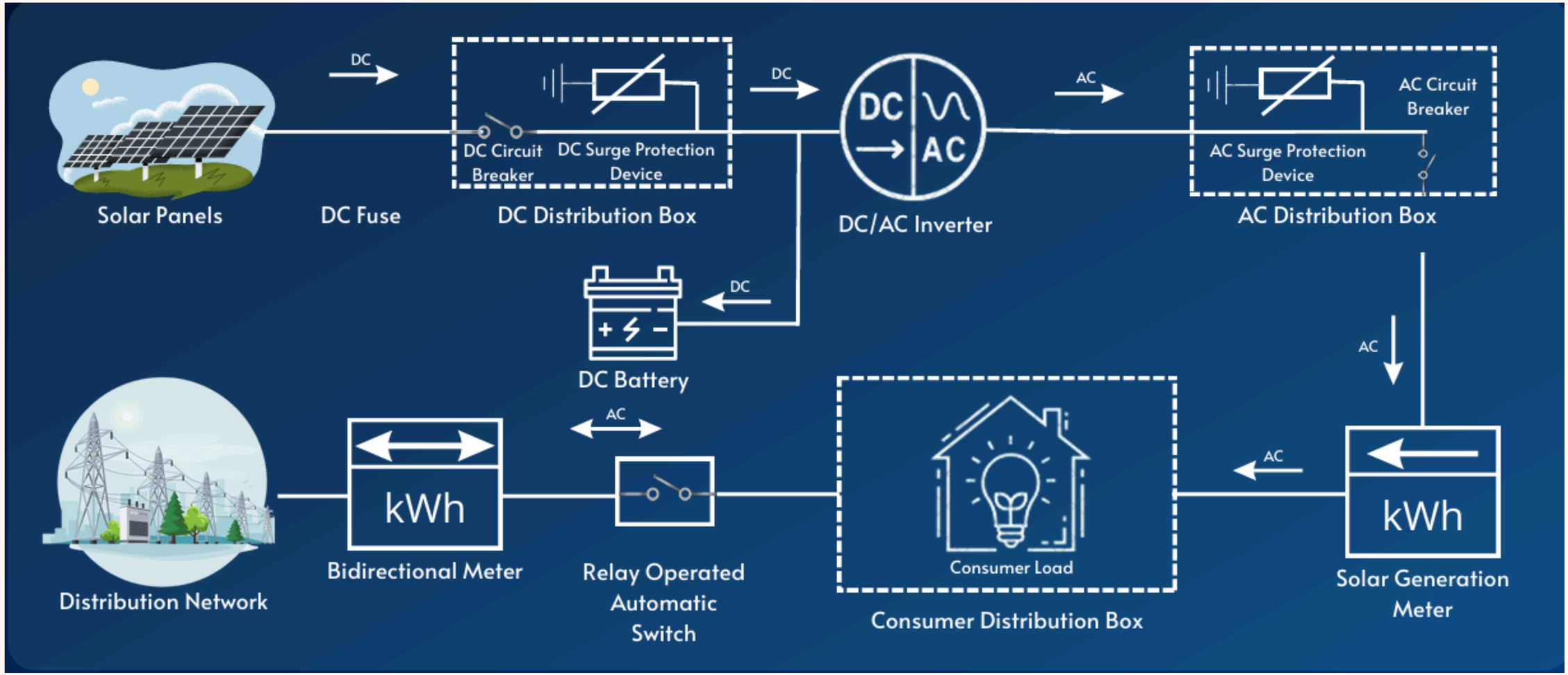

SOLAR HYBRID SYSTEM

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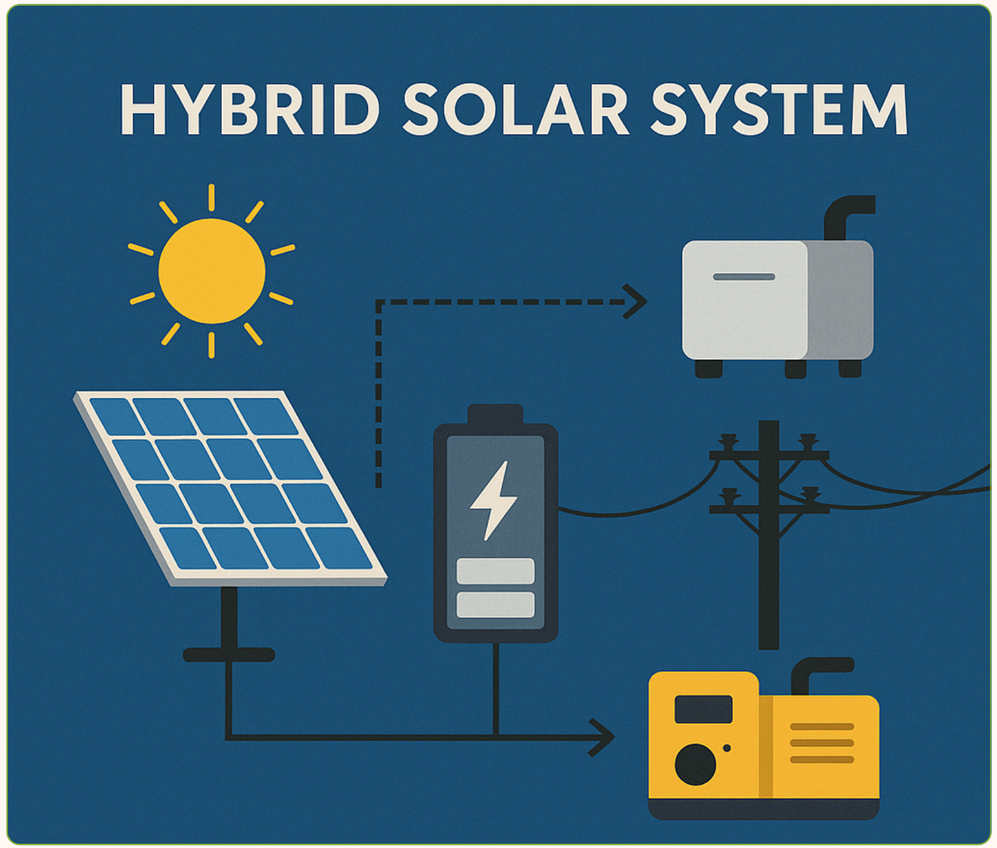
A hybrid solar system combines solar panels with a battery storage system and is connected to the electricity grid. It allows you to store excess solar energy for use when sunlight isn't available, while still drawing from or feeding energy into the grid as needed.

- Connected to the grid with battery storage for backup and energy optimization
- Works independently using solar, batteries, and often a generator—no grid connection
- Uses solar, batteries, and a diesel generator for reliable power in remote or off-grid areas
- Combines solar with other energy sources like wind or diesel for higher reliability



FLOATING SOLAR SYSTEM

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A floating solar power plant, also known as floatovoltaics, is a solar power generation facility where photovoltaic (PV) panels are installed on floating structures, typically on bodies of water such as lakes, reservoirs, or even the sea.

Advantages:

- Land Conservation
- Efficiency Gains
- Reduced Evaporation
- Water Quality Improvement

FLOATING SOLAR SYSTEM

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High-Density Polyethylene (HDPE) pontoons and platforms used in floatovoltaic systems (floating solar farms) to support solar panels on water bodies, offering durability, UV resistance, and corrosion resistance, allowing for clean energy generation without using land, and improving efficiency due to water's cooling effect. These modular floats are lightweight yet strong, often filled with foam for extra buoyancy, and feature built-in cable management, making them a popular, cost-effective, and long-lasting solution for sustainable power.

SOLAR STREET LIGHTS

Solar street lights are a type of outdoor lighting that uses solar panels to harness the sun’s energy and power the lights.

- All-in-one Solar Street Light: Solar panel, battery, LED light in a single unit.
- All-in-two Solar Street Light: Solar panel/light integrated, battery separate on pole.
- Split Solar Street Light: All components (panel, battery, light) are separate

SOLAR STREET LIGHTS

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SOLAR STREET LIGHTS

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Solar Bat Street Light 40 Watt - MPI40W

Solar Bat Street Light 60 Watt - MPI60W

Solar Bat Street Light 75 Watt - MPI75W

Solar Bat Street Light 80 Watt - MPI80W

Solar Bat Street Light 90 Watt - MPI90W

Solar Bat Street Light 100 Watt - MPI100W

Solar Bat Street Light 120 Watt - MPI120W

Solar Bat Street Light 150 Watt - MPI150W

SOLAR POWERED VEHICLE

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A Solar Power Hybrid Vehicle combines an electric propulsion system (motor + battery) with a traditional engine and integrates solar panels to generate electricity.

- Reduced Fuel Dependency
- Enhanced Stealth
- Environmental Benefits
- Increased Survivability
- Onboard Power Generation
- Improved Efficiency
- Resilience

SOLAR POWERED VEHICLE

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POWER TRANSMISSION & DISTRIBUTION

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- Design, simulation, supply, procurement, installation, erection, and commissioning of Low Tension (LT) and High Tension (HT) power networks.
- Power evacuation at various voltages, including 415V, 11kV, and 66kV.
- Low Tension (LT) distribution systems featuring Compact Sub-Stations (CSS).
- Specialized power evacuation solutions for large-scale industries.
- Design and development of overhead transmission lines for 11kV and 66kV.
- Underground power network solutions at 11kV and 66kV voltage levels.
- Operation and maintenance services for LT and HT power distribution networks and large-scale industrial facilities.

POWER TRANSMISSION & DISTRIBUTION

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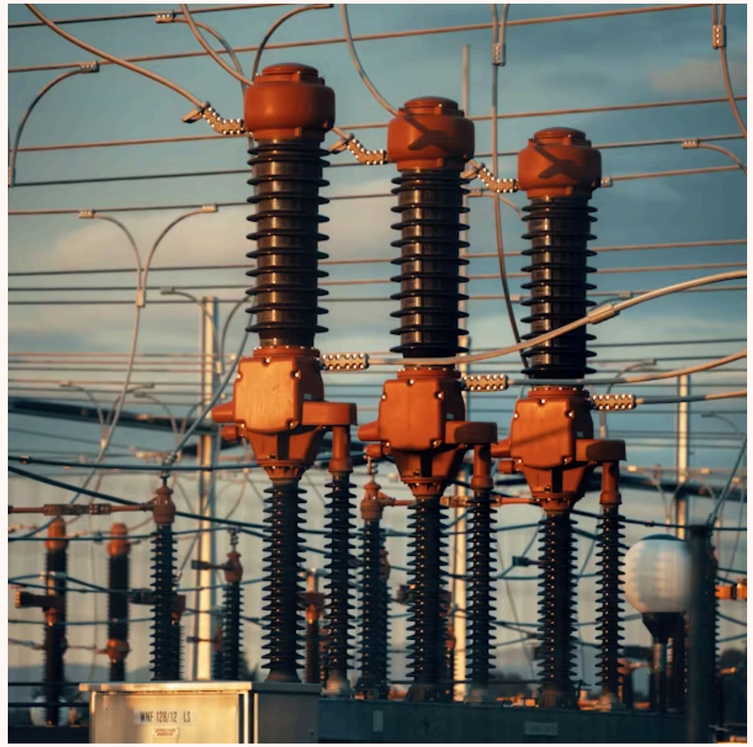

POWER TRANSMISSION & DISTRIBUTION

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RESEARCH & DEVELOPMENT

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- Seamless grid integration between renewable energy resources and existing power grid lines.
- Research and development on Battery Energy Storage Systems (BESS) along with Battery Management Systems (BMS).
- Research and development on solar-powered hybrid vehicles.

RESEARCH & DEVELOPMENT

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Proposes a collaborative research partnership with Indian Institution to foster innovation and drive advancements in Renewable Energy & Electrical Power Sector. Collaboration aims to leverage the strengths and expertise of both institutions to address critical challenges and develop innovative solutions.

Areas of Potential Collaboration	• Research Objectives • Key Questions
Research Methodology	Collaborative Approach, Data Collection and Analysis, Research Tools and Techniques
Expected Benefits	Joint Publications, Patent Applications, Knowledge Transfer, Capacity Building, Strengthened Institutional Relationships
Collaboration Model	Joint Research Projects, Student and Faculty Exchange Programs, Shared Research Facilities, Knowledge Sharing Workshops

ENERGY CONSULTATION

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- **Energy Auditing:** Analyse power usage and losses to improve efficiency and reduce costs.
- **Renewable Integration**: Evaluate and plan solar or hybrid systems for reliable integration into the grid.
- **Grid Studies:** Perform load flow, stability, and fault analysis to support system design and upgrades.
- **Regulatory Compliance:** Ensure adherence to grid codes, energy laws, and environmental standards.
- Feasibility & Techno-Commercial Studies.
- Efficiency Optimization & Procurement Advisory.
- FEM analysis for high switch gear
- Power flow analysis for Low Tension (LT) and High Tension (HT) bus systems.
- Transient stability analysis for grid networks.

SMART BATTERY STORAGE SYSTEM

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- Design and development of Lithium-ion and LFP battery packs
- Customised battery solutions for solar plants and hybrid systems
- Battery Energy Storage Systems (BESS) for backup and peak-load management
- Battery module assembly, testing, and quality validation
- Integration of batteries with solar grids and microgrids
- Advanced Battery Management System (BMS) configuration
- Safety testing and performance optimization
- Recycling and end-of-life management for solar batteries

BATTERY ENERGY STORAGE SYSTEM (BESS) & BATTERY MANAGEMENT SYSTEM (BMS)

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Provision of advanced Battery Energy Storage Systems for commercial and industrial applications to support reliable power supply and efficient energy management

Integrated BESS solutions include:

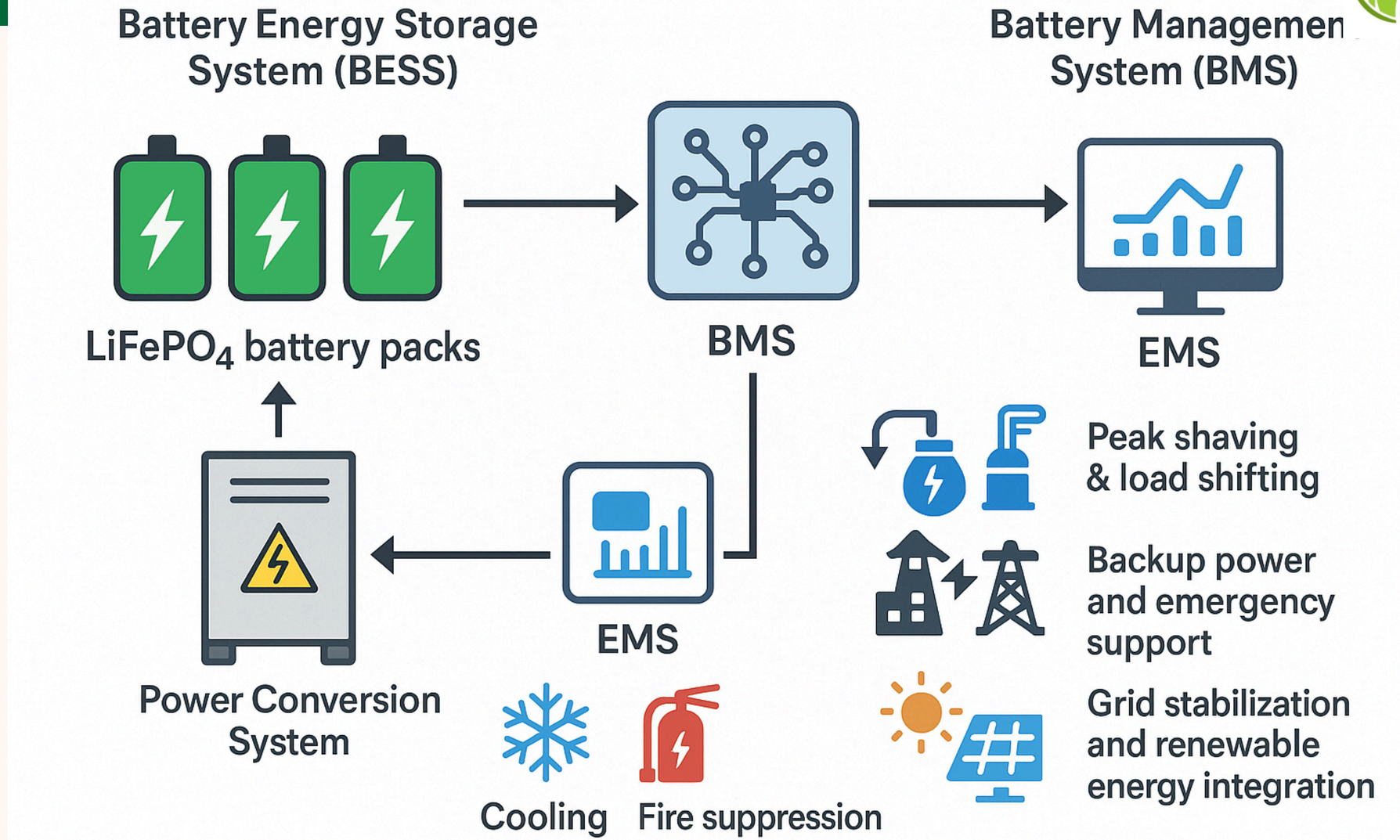
- LiFePO4 battery packs for high safety and long life
- Battery Management System (BMS) for real-time monitoring, protection and performance optimisation
- Energy Management System (EMS) for intelligent charge-discharge control
- Power Conversion System (PCS), cooling and fire suppression systems

Core system functionalities:

- Peak shaving & load shifting
- Backup power and emergency support
- Grid stabilisation and renewable energy integration
- Micro-grid and hybrid solar-storage applications

Key features:

- Modular and scalable design (kWh to MW level)
- Remote monitoring and smart communication capability
- High operational safety with thermal and voltage protection
- Suitable for indoor and outdoor commercial installations
- Expertise in turnkey EPC execution of large-scale energy storage projects, supporting hybrid solar + storage deployment and grid-scale BESS infrastructure


Battery Energy Storage System (BESS)
Battery Management System (BMS)
LiFePO4 battery packs
BMS
EMS
Power Conversion System
EMS
Cooling
Fire suppression
Peak shaving & load shifting
Backup power and emergency support
Grid stabilization and renewable energy integration

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OUR PROJECT

- Project Size: 5 MW
- Location: Morambli, Gujarat
- Seasonal Tilt Configuration
- 0.700 km 11 Kv underground transmission system
- Yield generated 24500 KWh per day

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OUR PROJECT

- Project Size: 1.8 MW
- Location: Dudhai, Gujarat
- Fixed Tilt configuration
- 0.900 km 11 Kv overhead transmission system
- Yield generated 8500 KWh per day

OUR PROJECT

- Project Size: 2 MW
- Location: Kutch, Gujarat
- Seasonal Tilt Configuration
- 0.1 km 11 Kv underground transmission system
- Yield generated 9800 KWh per day

OUR PROJECT

- Project Size: 1.3 MW
- Location: Jesar, Gujarat
- Seasonal Tilt Configuration
- Yield generated 6240 KWh per day
- 3 km overhead transmission line

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OUR PROJECT

- Project Size: 1.08 MW
- Location: Khavad, Gujarat
- Yield generated 5184 KWh per day
- Seasonal Tilt Configuration

OUR PROJECT

- Project Size: 35 KW
- Location: Ahmedabad, Gujarat
- Yield generated 168 KWh per day
- Roof Top (Commercial) Project

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OUR PROJECT

- Project Size: 73 kW
- Location: Bawla, Gujarat
- Yield generated 350.4 KWh per day
- Roof Top (commercial) project

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OUR PROJECT

- Project Size: 65 KW
- Location: Rajkot, Gujarat
- Yield generated 312 KWh per day
- Industrial Roof Top Project

OTHER PROJECTS

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- Design and development of a 5 MW solar PV grid-connected power plant with 66 kV transmission lines as a turnkey EPC project for third-party sale, located in Morambali, Dakor, Gujarat, India (July 2025).
- Design and execution of a 0.108 MW grid-connected solar PV power plant in Mangrol, Gujarat, India (December 2024).
- Design and execution of a 0.036 MW grid-connected solar PV power plant in Mangrol, Gujarat, India (December 2024).
- Design and execution of a 0.6 MW grid-connected solar PV power plant for captive consumption in Gandhinagar, Gujarat, India (August 2024).
- Design and execution of a 0.2 MW grid-connected solar PV power plant for captive consumption in Mehsana, Gujarat, India (June 2024).

OTHER PROJECTS

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- Design and execution of a 0.2 MW SPV grid-connected power plant for captive use in Gandhinagar, Gujarat, India (May 2024).
- Design and execution of a 0.4 MW SPV grid-connected power plant for captive use in Gandhinagar, Gujarat, India (May 2024).
- Design and consultancy for a 1.34 MW grid-connected SPV power plant for sale to DISCOM, located in Bila, Jesar, Bhavnagar, Gujarat, India (April 2023).
- Design and execution of a 2 MW grid-connected SPV power plant for sale to DISCOM, Rapar, Kutch, Gujarat, India (October 2022).
- Design and execution of a 15 kW SPV grid-connected power plant in Mahuva, Bhavnagar, Gujarat, India (June 2022).
- Design and consultancy for a 1.08 MW SPV grid-connected power plant for sale to DISCOM, Khavad, Kadi, Mehsana, Gujarat, India (April 2022).

OTHER PROJECTS

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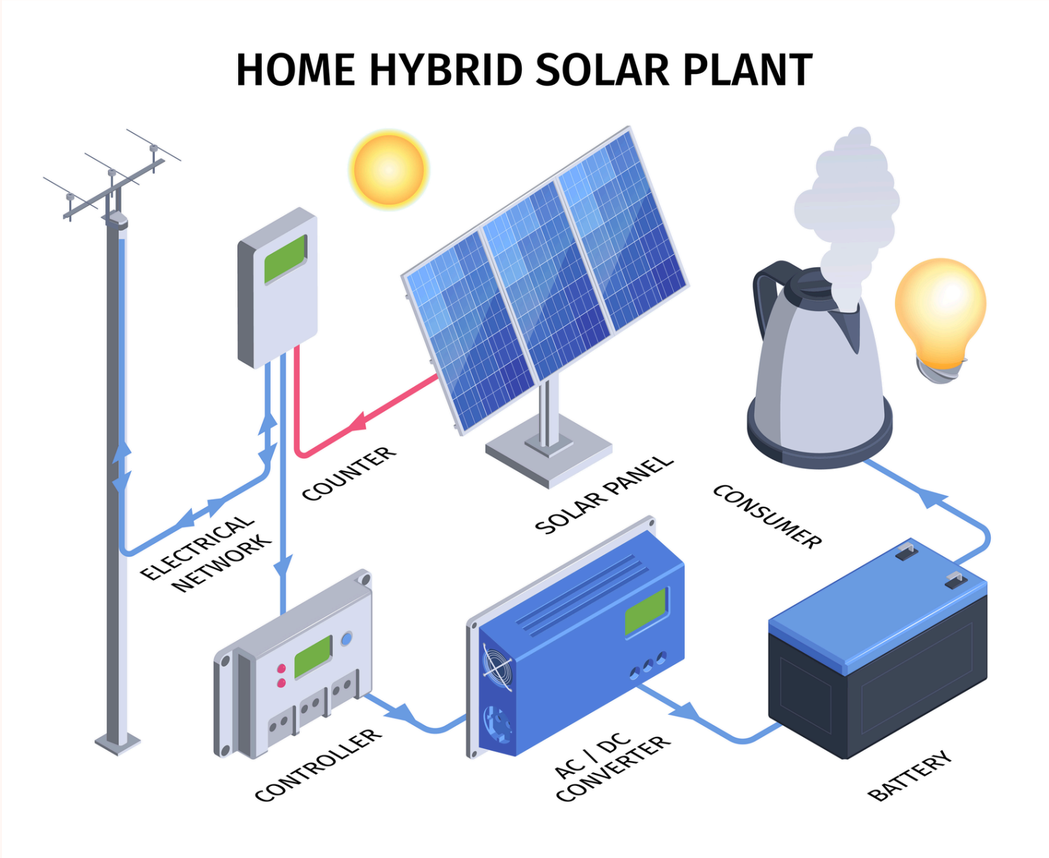
- Design and execution of a 10 kW SPV grid-connected power plant in Ahmedabad, Gujarat, India (April 2022).
- Design and consultancy for a 1.8 MW SPV grid-connected power plant for captive consumption in Dudhai, Morbi, Jamnagar, Gujarat, India (April 2021).
- Design and consultancy for a 35 kW SPV grid-connected power plant in Bhavnagar, Gujarat, India (April 2021).
- Design and execution of a 73 kW SPV grid-connected power plant at, Bavla, Ahmedabad, Gujarat, India (October 2020).
- Design and consultancy for a 35 kW SPV grid-connected power plant in Bhavnagar, Gujarat, India (November 2019).
- Design and development of a 65 kW SPV grid-connected power plant in, Rajkot, Gujarat, India (August 2019).

OTHER PROJECTS

- Design and development of a 35 kW SPV grid-connected power plant at Ahmedabad, Gujarat, India (August 2019).
- Design and consultancy for a 1 MW SPV grid-connected power plant in Jodiya, Jamnagar, Gujarat, India (April 2019).
- Design and consultancy for a 50 kW SPV grid-connected power plant in Than, India (October 2018).
- Design and consultancy for a 168 kW SPV grid-connected power plant in Mahuva, Gujarat, India (September 2018).



ONGOING & PROSPECTIVE PROJECTS

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- Design and development of an 18 MW SPV grid-connected power plant with a 66 kV transmission line as a turnkey EPC project for captive consumption at Bhavnagar, Gujarat, India (ongoing).
- Design and execution of a 1 MW grid-connected SPV power plant for captive consumption in Balasinor, Gujarat, India (ongoing).
- Design and execution of a 25 MW grid-connected SPV power plant under open access in Modasa, Gujarat, India.
- Design and execution of a 10 MW grid-connected SPV power plant with a 66 kV transmission line for captive consumption at Kim, Surat, Gujarat, India.
- Design and development of a 50 MW SPV grid-connected power plant with a 100 km, 132 kV transmission line as a turnkey EPC project at Masvingo Province, Zimbabwe.

BEST IN CLASS, QUALITY & STANDARDS

MISHAY POWER INFRA

✓ **PV Modules**	• IEC 61215/ 61646/ 62108 for design and type qualification • IEC 61730 for safety qualification
✓ **Inverter & Interconnection**	• IEC 62109 for safety of power converters • CEA's standards and IEC 61727 for utility interconnection including harmonics, DC injection • IEC 62116 for Anti-Islanding
✓ **Structures**	• IS:875 (Part 3)-1987 for design of structures (including wind loads and other loads) • Light-weight and no roof puncturing
✓ **Installation**	• IEC 60364 for installation • IEC 62446 for documentation, commissioning and inspection standards
✓ **Protection**	• IS:3043-1987 for Earthing • IS:2309-1989 for lightning and surge protection
✓ **Performance**	• Preventive, corrective and predictive maintenance and Real-Time Monitoring

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OUR CONTACT

www.mishaypowerinfra.com

+91-88499-04201

Titanium Business Park, D-1305, near
Makarba, Ahmedabad, Gujarat 380051

info@mishaypowerinfra.com

THANK YOU