

empergy



Developing a greener earth for a better future



## Going Green

The need to ease the environmental strain caused by the global business landscape's voracious appetite for power has resulted in a grim scenario of potentially catastrophic consequences for the world climate. Demand for clean technology is increasing globally. Companies are embracing more eco-friendly practices to achieve sustainability. Deployment of 'Green Technology' has become an important part of strategic, long-term economic plan for businesses.

Empergy understands the importance of renewable energy to fight climate change and advocates its use to replace fossil fuels. We encourage employees, business partners and communities to embrace activities that will help build a low-carbon economy. To that end, Empergy has incorporated eco-friendly practices in its businesses.

## The Scenario

### Renewable energy solutions for sustainable development

India, home to 1.2 billion people and over 17% of the world's population, has a comprehensibly insatiable appetite for energy. One punitive consequence of this growth is the widening gap between required energy and energy which is produced. Also, carbon-dioxide emission in India has increased sharply with persistent fiscal progression and higher intake of energy. Currently, about 37% of India's commercial energy needs are being imported.

The Solar Energy industry is experiencing change with the influx of subsidies, soft loans, accelerated depreciation, excise duty exemption, custom duty concession and other such incentives extended by the state and central government in India. India, as a country, has abundant renewable resources in solar, hydro, biomass, and wind potential. The legal, policy, and regulatory environment is becoming more hospitable to the increase of renewables in the energy sector.



## Reshaping Energy Solutions

### Empergy Power and Infrastructure Private Limited

With an objective to have a transition to a low carbon energy future, Empergy Power & Infrastructure Private Ltd. was incorporated in India in April 2011. An independent power producer and wholly owned subsidiary of Amvensys Capital Group (ACG) headquartered in the United States, Empergy collaborates with the national and state missions on solar energy to bid for solar projects across India to focus on solar energy and allied areas for setting up utility scale Solar PV projects and Roof-top Solar PV projects.

Empergy is a socially responsible enterprise by contributing to the big picture of developing a greener earth for a better future. Empergy is focused on engaging globally proven and integrated technologies for solar projects to address the challenges of energy security and climate change, while also meeting the growing energy needs of India. With enhanced international co-operation for researching, developing, sharing and transferring technologies, Empergy has garnered proven capabilities in conceptualizing, commissioning and operating solar projects with expertise in project management and assistance in financial procurement.





## Vision & Mission Statement

### Vision

- Promote sustainable energy usage that spurs economic growth and environmental protection in a global context – particularly in terms of reducing greenhouse-gas emissions that contribute to climate change
- Engage and promote eco-friendly, green technology in the energy sector to secure future energy supplies and alleviate their environmental impact
- Ensure improved energy efficiency, along with development and widespread deployment of solar projects for sustainable social development

### Mission Statement

*“Developing a greener earth for a better future”*

Empergy aims for greater eco-efficiency in its activities by maximizing energy and resource efficiency, reusing existing elements, and providing products and services which reduce the harmful effects on the environment.

# Empergy: Offerings Portfolio

## Services Portfolio

Empergy is incorporated to work in close association with the Ministry of New and Renewable Energy (MNRE) and nodal agencies in various industries like Manufacturing, Health & Pharmaceuticals, Hospitality & Tourism, Information & Broadcasting, Petroleum & Gas, Power, Food Processing, Textiles, Non-Governmental Organizations (NGO) & Trusts, Rural Development, Tribal Welfare, Science & Technology, Transport, Water Resources, Agriculture, Environment & Forests. Empergy will also focus on customer sectors, including, Education, Malls, InfoTech and Banking.

Empergy is a one-stop-destination for EPC (Engineering, Procurement & Construction), project development, design, integration, supply, installation, commissioning, after-sales services, financing, consulting, handling of RPO & REC mechanism, CDM & CER mechanism, and related services.

Empergy is offering its comprehensive services portfolio to support the progressions involved in the project, including an analysis of energy requirements, study of the best energy production design and the application of Government benefits. Besides this, Empergy designs a complete module for energy management services, providing the information needed to design a business plan with optimal operational efficiency to achieve the best energy cost savings and quality for its clients.





## Product Portfolio

Empergy offers products and projects based on Solar Photovoltaic (PV) for power generation application by solar power systems. These systems have high diesel saving potential and service life in excess of 25 years. Components, compliant to various national and international standards like ISO-9001-2000, IEC and BIS etc., include,

- Solar Modules (Mono-Crystalline, Multi-Crystalline, Thin Film Technologies like, CIGS, CdTe, aSi)
- High Efficiency Inverters (Central, String, Standalone)
- Charge Regulators
- Structures (Fixed, Tracking)
- Lead Acid Storage Batteries (Sealed, Vented)
- Monitoring Systems
- Cable Accessories

The Empergy Product portfolio consists of:

- Utility Scale Solar PV Projects (1 MW - 5 MW)
- Off-grid / Rooftop solar PV systems (10 kW - 100 kW)

### Utility Scale Solar PV Projects

Empergy's Utility Scale Solar PV Projects are FIT (Feed-in Tariff) and / or REC (Renewable Energy Certificate) certified, with an output in multiples of 1 MW - 5 MW of power. Generated power is sold to buyers through Power Purchase Agreement (PPA).

Empergy has also designed a comprehensive financial portfolio for the projects, along with project execution assistance by experienced EPC contractors. Benefits like accelerated depreciation, MNRE subsidies (30% to 90%) and applicable soft loans are available through MNRE Channel Partnership arrangements. Project components will be sourced from reputed manufacturers, and designs will be carried out internally.

### Off-grid / Rooftop Solar PV Systems

The Off-grid / Rooftop Solar PV Systems business of Empergy is focused on the inception of a system-integration center equipped to carry out design, sourcing, integration, testing, and dispatch of systems ranging in capacity from 10 kW - 100 kW range. These systems are sold to buyers at competitive prices, or power generated from these systems is sold to them through PPA. System components are sourced from reputed manufacturers.



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