



Business Opportunities in Energy Sector.

Business Ideas in Power Sector Projects.

Power Project, Power Generation Plants, Hydroelectric Power, Gas-Fired Power Station, Coal, Thermal, Water, Hydro, Wind, Solar, Agro, Biogas Based Power Plants, Electrical Power Industry, Alternative, Renewable Power Generation, Electricity Generation



Introduction

Power is one of the most critical components of infrastructure crucial for the economic growth and welfare of nations. The existence and development of adequate infrastructure is essential for sustained growth of the Indian economy.

India's power sector is one of the most diversified in the world. Sources of power generation range from conventional sources such as coal, lignite, natural gas, oil, hydro and nuclear power to viable non-conventional sources such as wind, solar, and agricultural and domestic waste. Electricity demand in the country has increased rapidly and is expected to rise further in the years to come. In order to meet the increasing demand for electricity in the country, massive addition to the installed generating capacity is required.



A transmission tower is a structure which supports and conveys electric transmission lines. Transmission tower are the supporting structure for overhead lines and carry the transmission conductor above the ground level. The rising demand for electricity, need for replacement of ageing infrastructure and installation of new transmission and distribution infrastructure is expected to drive the growth of transmission tower market. However, varying raw material prices, especially steel, and export and import restrictions may hinder the future potential of this market.

Transmission towers are used in high voltage AC and DC applications to carry safety critical and heavy conductor. Thus, transmission towers need to be able to withstand natural calamities and must be designed accordingly.



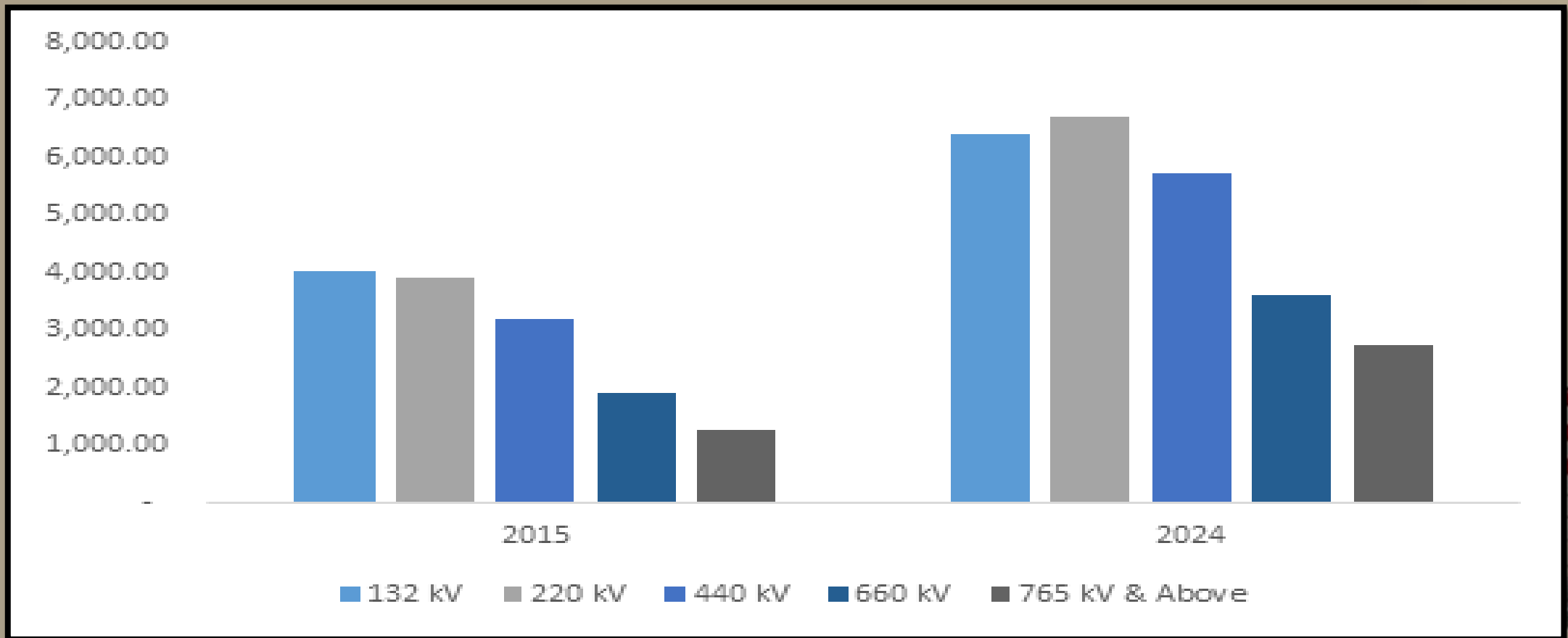
Developing nations such as India and China are the key markets driving the growth of this market whereas in developed economies such the North American and European regions presents new growth avenues with respect to the technological developments and replacement demand. However, fluctuating steel prices, and import/export regulations are key restraints for the global transmission towers market.

It also highlights the potential growth opportunities in the coming years, while also reviewing the market drivers, restraints, growth indicators, challenges, market dynamics, competitive landscape, and other key aspects with respect to transmission tower market.





Global Power Transmission Lines & Towers Market, By Voltage, 2013 - 2024 (USD Million)





Increasing electricity demand on account of rising urban population will drive the global market size of power transmission lines & towers over the forecast timeframe. In the past decades, utilities and private financial institutions have made significant investments towards the development of new grid infrastructure across the globe. In 2016, U.S. announced the investment of USD 10 billion for developing new grid infrastructure in line of reducing curtailment rate across western transmission network.

The global power transmission towers and cables market features a highly fragmented and a markedly dynamic operating environment.





The global power transmission towers and cables market stood at US\$7.62 bn in 2014 and is projected to rise at a CAGR of 7.15% from 2015 to 2023. Expanding at this pace, the market is anticipated to reach a valuation of US\$13.90 bn by the end of 2023.

Regionally, Asia Pacific leads the market and is predicted to account for a revenue of 49.0% by the end of the forecast period. The growth of the regional market is primarily propelled by the increasing upgrade of conventional power transmission infrastructures in order to meet the intensifying demand for smart grid technologies. Based on type, the market for power transmission cables is anticipated to lead throughout the forecast period. This segment is projected to rise at a CAGR of 10.28%, in terms of volume, from 2015 and 2023, mainly driven by the demand for constant expansion of grid networks.

Global Power Transmission Towers and Cable Market, By Region, 2015

(US\$ Mn)





India's power generation mix is considerably inclined towards coal based power generation. Current capacity addition and new establishments show increased share of coal in the Indian energy sector. As the coal reserves are limited to their natural availability and also due to the stringent environmental clearance, expansion of coal mining is limited in India. It is predicted that the Indian coal sector will face substantial shortfall in the quantum of coal production that is likely to continue in future.

Natural gas is a clean fuel as compared to coal and can be efficiently used in power generation. As the domestic coal supply is generally of low quality with low calorific values, high degree of ash content and its adverse impacts to the environment, Government of India encourage gas based power generation in India. The use of gas in power-generation was initially promoted by the Government primarily with a view towards environmental considerations.



Biomass has always been an important energy source for the country considering the benefits and promises it offers. It is a carbon neutral fuel source for the generation of electricity; and apart from providing the much needed relief from power shortages, biomass power projects could generate employment in rural areas.

About 32% of the total primary energy use in the country is derived from biomass and more than 70% of the country's population depends upon it for their energy needs.





India has over 5,940 MW biomass based power plants comprising 4,946 MW grid connected and 994 MW off-grid power plants. Out of the total grid connected capacity, major share comes from bagasse cogeneration and around 115 MW is from waste to energy power plants. Whereas off-grid capacity comprises 652 MW non bagasse cogeneration, mainly as captive power plants, about 18 MW biomass gasifier systems being used for meeting electricity needs in rural areas, and 164 MW equivalent biomass gasifier systems deployed for thermal applications in industries.



State wise Biomass Power and Cogeneration Projects

State Wise Biomass Power and Cogeneration Projects	
State	Capacity (MW)
Andhra Pradesh*	389.75
Bihar	43.42
Chhattisgarh	264.90
Gujarat	55.90
Haryana	52.30
Karnataka	737.28
Madhya Pradesh	36.00
Maharashtra	1,112.78
Odisha	20.00
Punjab	140.50
Rajasthan	111.30
Tamil Nadu	662.30
Uttarakhand	30.00
Uttar Pradesh	936.70
West Bengal	26.00
Total	4,761.00





Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Required Project

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Here are few Projects for Startup:

➤ **CO-GENERATION POWER PLANT BASED ON BAGASSE**

Co-generation plant based on Bagasse is the need of the hour in the perspective of the power generation required and its demand is increasing considerably. There stands an imperative need for the setting up of power plant based on bagasse, which is a waste product from sugar industries. [Read more](#)



➤ TRANSMISSION TOWER & TELE COMMUNICATION TOWER WITH GALVANIZING PLANT

The purpose of a transmission line tower is to support conductors carrying electrical power and one or two ground wires at suitable distances above the ground level and from each other. A transmission line tower is a space-frame and high order indeterminate structure. Its cost is influenced by its weight. [Read more](#)





➤ GAS BASED POWER PLANT

When the gas turbine generator was introduced to the power generation industry in the late 1940s, it was a revolutionary self-contained fossil-fueled power plant. Gas turbine generators are self-contained packaged power plants. Air compression, fuel delivery, combustion, [Read more](#)





➤ SOLAR POWER PLANT

Solar thermal systems for generating electricity use tracking mirrors to reflect and concentrate sunlight on to a receiver, where, it is converted to high temperature thermal energy. The high-temperature heat in the receiver is then used to drive a heat engine and electric generator to produce electricity. [Read more](#)





➤ CAPTIVE POWER PLANT

Robust power generation and an effective delivery model determine the bullish economic growth of a country. A weak power infrastructure impedes the growth potential and pulls back the growth initiatives. Captive power plants are essentially non-utility power plants. [Read more](#)





➤ THERMAL POWER PLANT (5 MW)

Power generation is an essential requirement of economic growth of a country. Generation involves with the production of power and transmission and distribution function is of carrying the generated power to the doorsteps of the consumer. India's per capita power consumption was 490 units in 2004-05, one third compared with 1,500 units of China. [Read more](#)





➤ COAL BASED POWER PLANT (500 MW)

Power Generation is an essential requirement of economic growth of a country. A weak power infrastructure does not lead to the growth potential and pulls. Generation involves with the production of power, and transmission and distribution function is of carrying the generated power to the doorsteps of the consumers. [Read more](#)





➤ **BAGASSE BASED COGENERATION POWER PLANT**

Energy demand is fast increasing with rapid industrialization and urbanization in India. In a developing economy like India, generally energy demand is increasing at much faster pace than supply. Increasing demand also leads to increase in cost of energy, hence high power tariffs for consumers. [Read more](#)



➤ BIO MASS GASIFICATION POWER PLANT

Bio-gas power plant is one of the sources of non-conventional energy. The biomass fuels are solid carbonaceous materials derived from living plants and animals. There is availability of waste material in our country, producer gas can be easily converted to energy. It can be used for providing electricity in nearer or furthest area. [Read more](#)





➤ **BIOGAS POWER PLANT FROM COW DUNG**

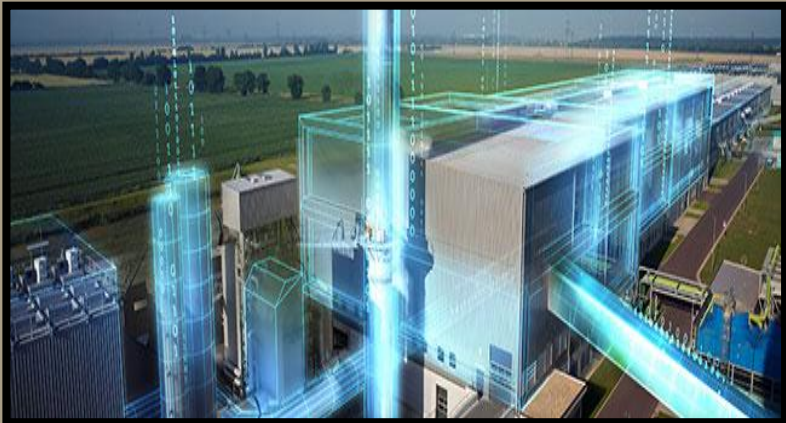
Biogas plants have the ability to accept a wide variety of organic residues as primary fuel input. This includes Cow dung, agricultural residue, effluent discharge, food residue etc. Most agricultural / food production processes have significant amount of organic residues output as by-product. [Read more](#)





➤ POWER PROJECT FOR GLASS INDUSTRY

Glass industry in India is one of the prime industry where much more power is utilizing for controlling the production of glass continuously. It is necessary to regular supply of power in the industry. On that base it is best to produce captive power in their own industry. [Read more](#)





➤ POWER GENERATION FROM GARBAGE

Managing waste is the collection and ultimate disposal of the waste without causing environmental damage. Power generation from waste is one of unique thinking of country growth. It is prime need in all over our countries as well as mostly under developed country and developing countries. [Read more](#)





➤ BIOMASS POWER GENERATION PLANT

Biomass is biological material derived from living, or recently living organisms. In the context of biomass for energy this is often used to mean plant based material, but biomass can equally apply to both animal and vegetable derived materials. Biomass is a plant matter used to generate electricity or produce heat, usually by direct incineration. [Read more](#)





➤ SUGAR MILL, DISTILLERY AND POWER PLANT

India is now the largest producer of sugar in the world. Although subject to cyclical fluctuations, sugar production has grown phenomenally in the mid-1990s. It expanded from 14.6 mn tonnes in 1994-95 to 16.5 mn tonnes in 1995-96, representing a growth of 18% in one year. [Read more](#)





Tags

Co-Generation Power Plants in India, Cogeneration Plant, Bagasse & Co-generation of Renewable Energy, Cogeneration Power Plant, Bagasse Cogeneration in India, Biomass Power and Cogeneration in India, Co-Generation Power Plant Based on Bagasse, Transmission Tower & Tele Communication Tower with Galvanizing Plant, Towers and Galvanizing, Transmission Tower, Thermal Power Station, Gas Based Power Plant, Solar Power Plant, Sugar Mill, Distillery and Power Plant, Captive Power Plant, Thermal Power Plant (5 Mw), Coal Based Power Plant (500 Mw), Bagasse Based Cogeneration Power Plant, Bio Mass Gasification Power Plant, Biogas Power Plant from Cow Dung, Power Project for Glass Industry, Power Generation from Garbage, Biomass Power Generation Plant, Biogas Power Plant from Cow Dung project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Biomass Power Generation Plant Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Biogas Power Plant from Cow Dung, Power Generation from Garbage Projects, New project profile on Biogas Power Plant from Cow Dung, Project Report on Power Generation from Garbage, Detailed Project Report on Power Generation from Garbage, Project Report on Co-Generation Power Plant, Pre-Investment Feasibility Study on Co-Generation Power Plant, Techno-Economic feasibility study on Biomass Power Generation Plant,



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**For more Projects and further details,
visit at:**

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Major Queries/Questions Answered in Our Report?

- 1. How has the industry performed so far and how will it perform in the coming years?**
- 2. What is the Project Feasibility of the Plant?**
- 3. What are the requirements of Working Capital for setting up the plant?**
- 4. What is the structure of the industry and who are the key/major players?**



- 5. What is the total project cost for setting up the plant?**
- 6. What are the operating costs for setting up the plant?**
- 7. What are the machinery and equipment requirements for setting up the plant?**
- 8. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?**
- 9. What are the requirements of raw material for setting up the plant?**



- 10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?**
- 11. What is the Manufacturing Process of the plant?**
- 12. What is the total size of land required for setting up the plant?**
- 13. What will be the income and expenditures for the plant?**
- 14. What are the Projected Balance Sheets of the plant?**



- 15. What are the requirement of utilities and overheads for setting up the plant?**
- 16. What is the Built up Area Requirement and cost for setting up the plant?**
- 17. What are the Personnel (Manpower) Requirements for setting up the plant?**
- 18. What are Statistics of Import & Export for the Industry?**
- 19. What is the time required to break-even?**



- 20. What is the Break-Even Analysis of the plant?**
- 21. What are the Project financials of the plant?**
- 22. What are the Profitability Ratios of the plant?**
- 23. What is the Sensitivity Analysis-Price/Volume of the plant?**
- 24. What are the Projected Pay-Back Period and IRR of the plant?**
- 25. What is the Process Flow Sheet Diagram of the plant?**
- 26. What are the Market Opportunities for setting up the plant?**
- 27. What is the Market Study and Assessment for setting up the plant?**
- 28. What is the Plant Layout for setting up the plant?**



Reasons for Buying Our Report:

- **The report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **The report provides vital information on the product like it's characteristics and segmentation**
- **The report helps you market and place the product correctly by identifying the target customer group of the product**





- **The report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**





Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**





Free Instant Online Project Identification and Selection Service

Our Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.....[Read more](#)





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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)





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- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*





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- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*



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- *We have two decades long experience in project consultancy and market research field*
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- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation



Contact us

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