

Projects on Coal and Coal by Products

(Coal Tar, Coal & Coke, Fossil Fuel, Charcoal, Carbon Black, Coal Washing, Coal Mining, Charcoal Powder from Rice Husk, Charcoal from Coconut Shell, Bitumen Emulsion, Coconut Shell Charcoal, Coal Tar Pitch, Activated Charcoal from Wood, Charcoal from Bagasse)

Business Ideas for Beginners



Introduction

Coal is a plentiful resource that has been used for thousands of years to produce energy, both in the form of heat and electricity.

Coal is a fossil fuel created from the remains of plants that lived and died about 100 to 400 million years ago when parts of the earth were covered with huge swampy forests. Coal is classified as a nonrenewable energy source because it takes millions of years to form.

Coal is used primarily as an energy source, either for heat or electricity. It was once heavily used to heat homes and power locomotives and factories. Bituminous coal is also used to produce coke for making steel and other industrial process heating. Coal gasification and coal liquefaction (coal-to-liquids) are also possible uses of coal for producing synthetic fuel. Approximately 4% of the coal mined in the United States is exported, and most of the exported coal is used for making steel.



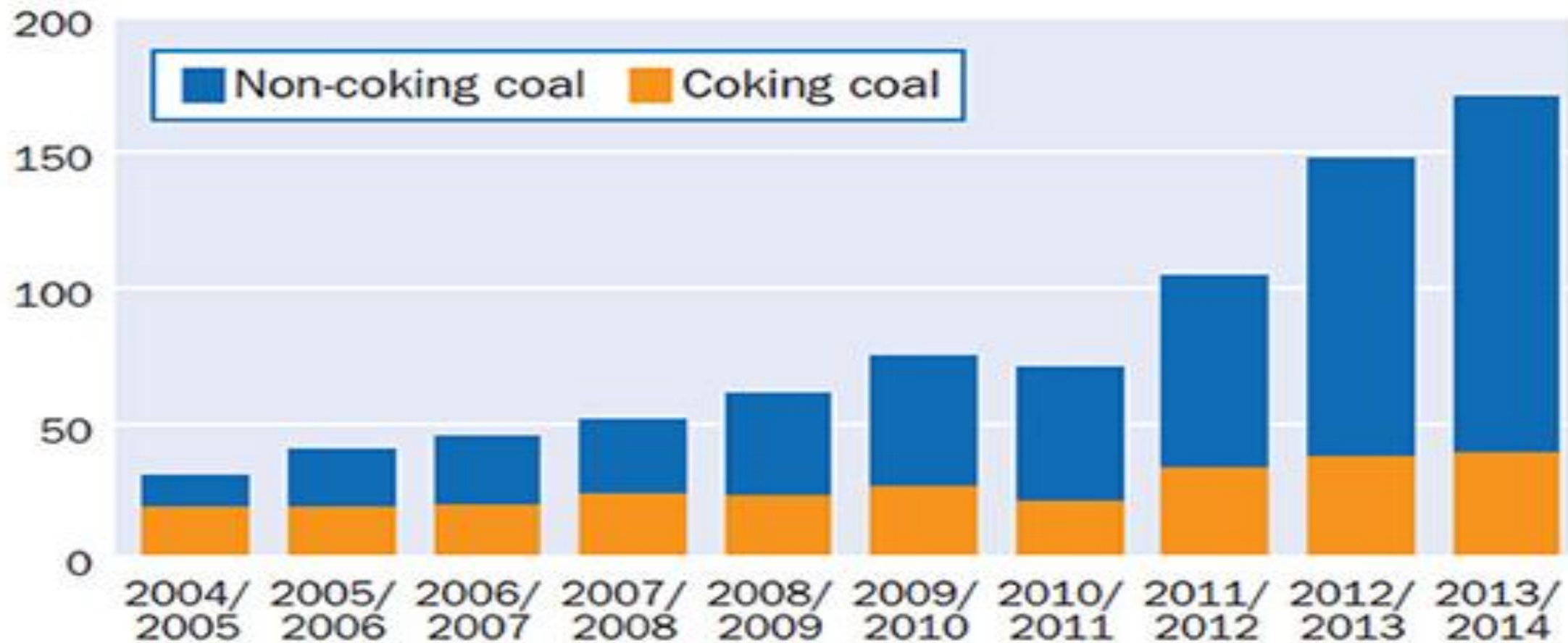
Market Outlook

Coal continues to be a major source of energy for India.

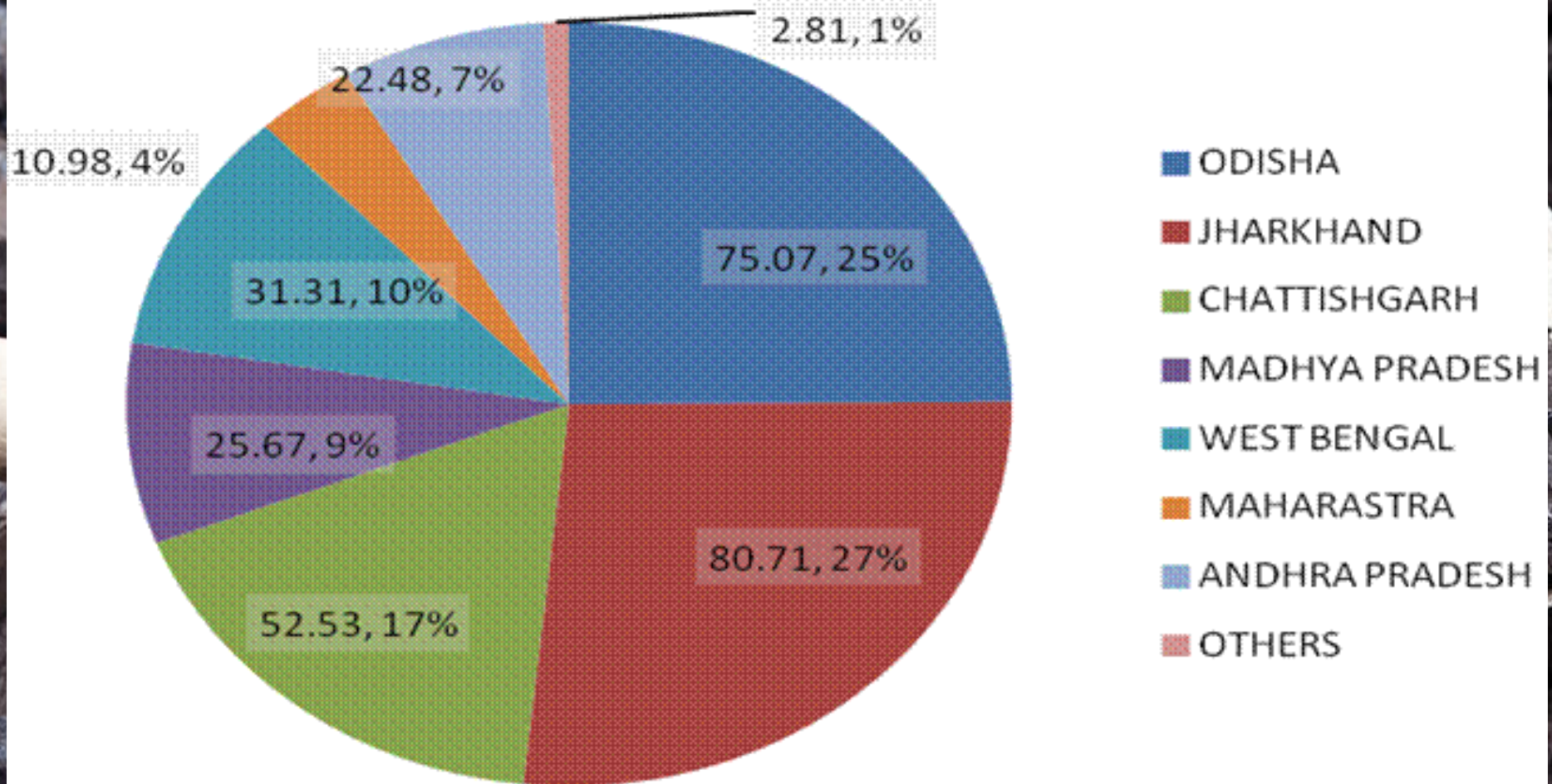
In India's energy sector, coal accounts for the majority of primary commercial energy supply. With the economy poised to grow at the rate of 8-10% per annum, energy requirements will also rise at a reasonable level.

The Indian coal industry aspires to reach the 1.5 billion tonne (BT) mark by FY 2020. India has plans to almost double its production to one billion tonnes by 2020 to meet its growing requirements.

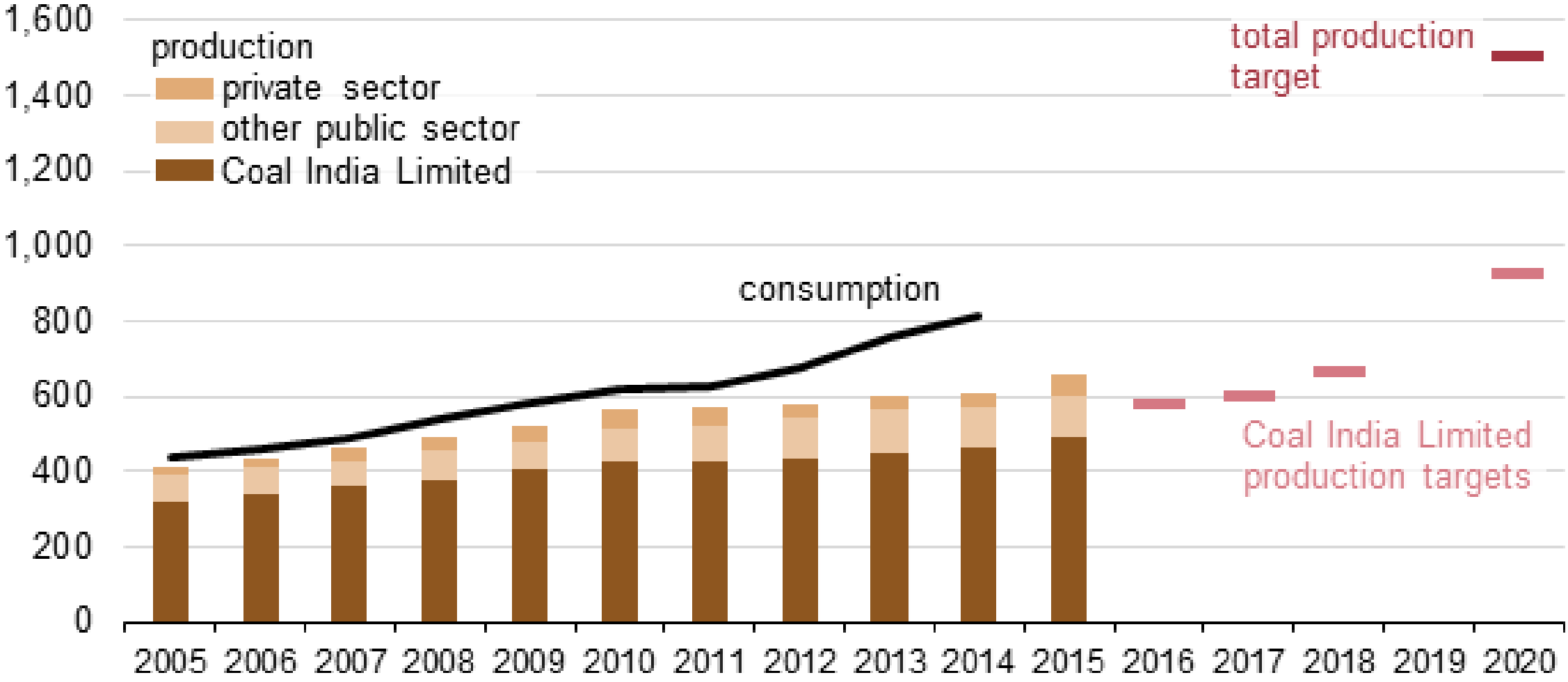
India Coal Import (Million MT)

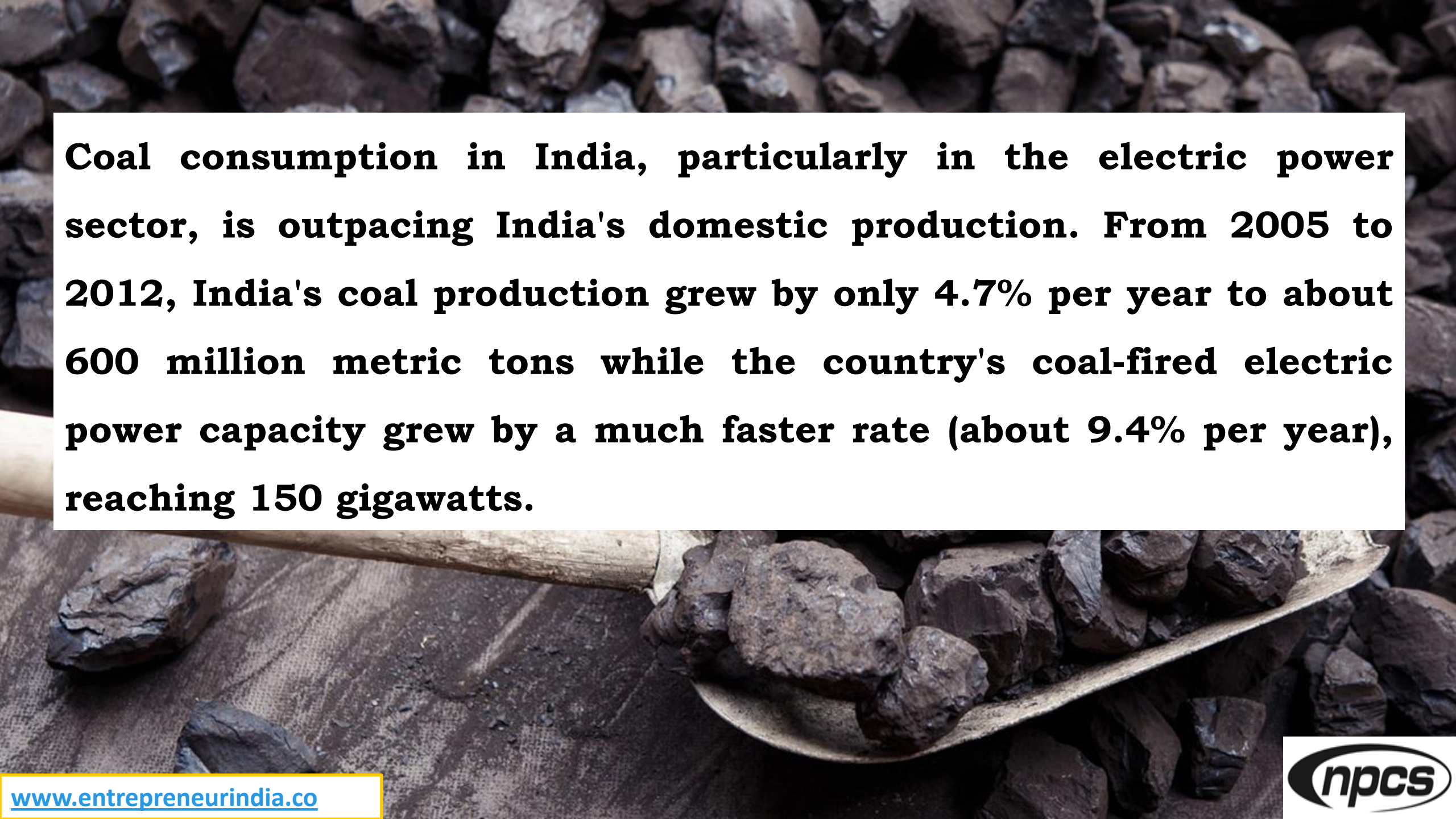


Coal in India



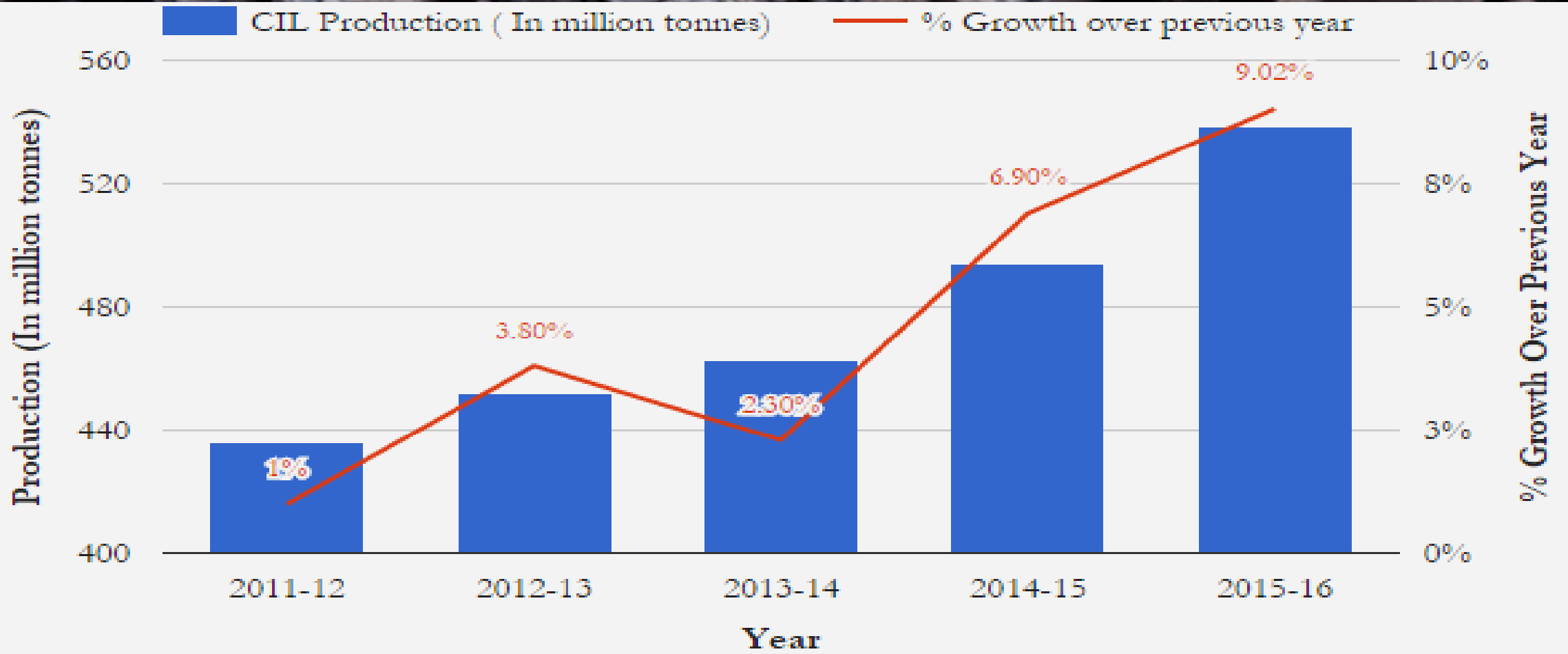
India's Coal Industry






Coal consumption in India, particularly in the electric power sector, is outpacing India's domestic production. From 2005 to 2012, India's coal production grew by only 4.7% per year to about 600 million metric tons while the country's coal-fired electric power capacity grew by a much faster rate (about 9.4% per year), reaching 150 gigawatts.

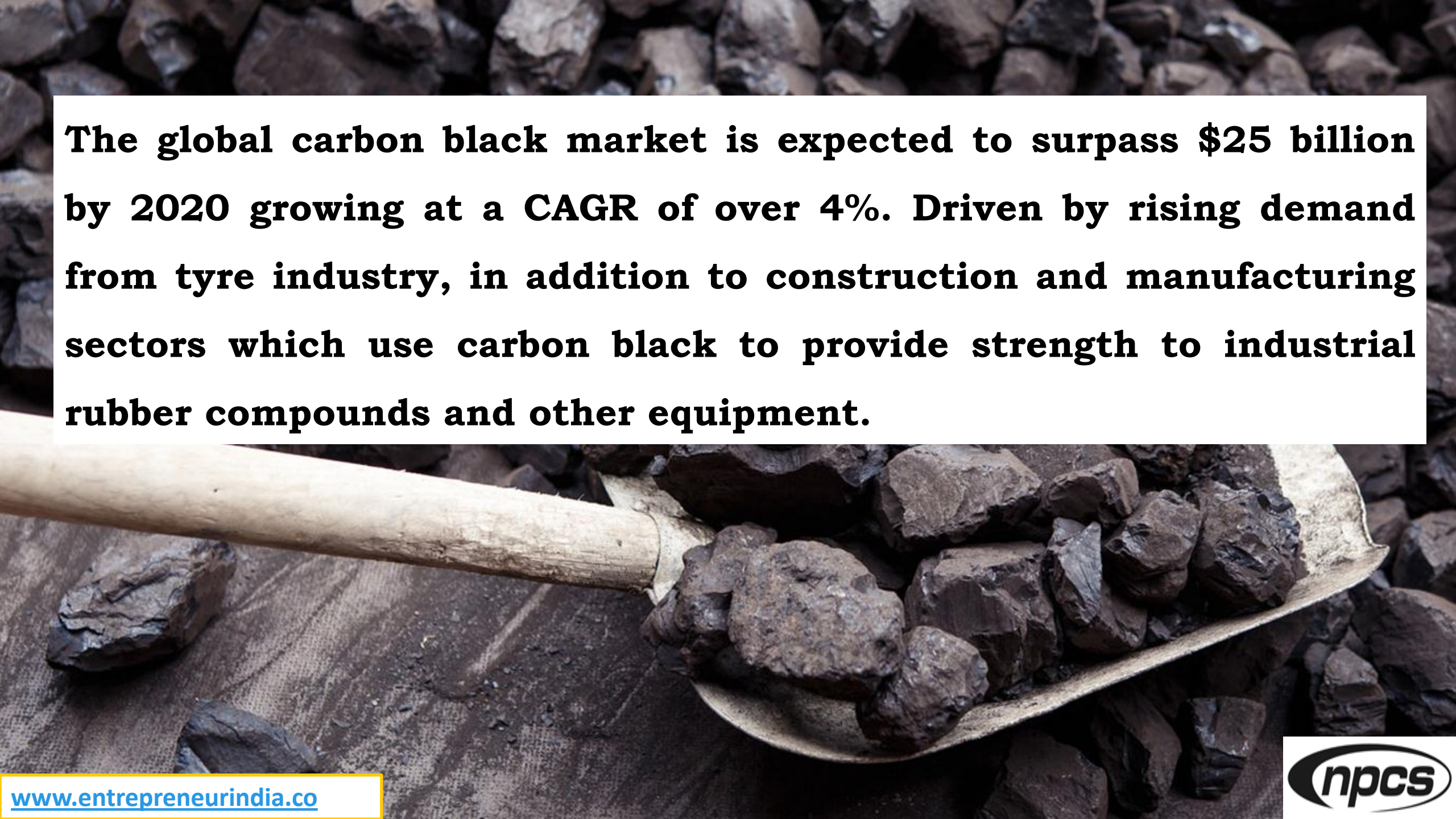
Coal Production in Past 5 Years





The global market for Charcoal is expected to reach about 87288 K MT by 2023 from 61338 K MT in 2016, registering a Compounded Annual Growth Rate (CAGR) of 5.17% during the analysis period, 2017-2023.

India's carbon black market is expected to grow at around 14% CAGR until 2020.



The global carbon black market is expected to surpass \$25 billion by 2020 growing at a CAGR of over 4%. Driven by rising demand from tyre industry, in addition to construction and manufacturing sectors which use carbon black to provide strength to industrial rubber compounds and other equipment.

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

Coal and Coal by Products, Coal Tar, Coal & Coke, Fossil Fuel, Charcoal, Carbon Black, Coal Washing, Coal Mining

➤ **Charcoal Powder from Rice Husk**

Charcoal is produced in kilns and retorts. The thermal decomposition of wood in a kiln with a controlled air supply produces charcoal. The gaseous products and some of the wood are burned. Retort charcoal is generated in the absence of air. Originally, charcoal was used as a smokeless, odorless fuel for heating and cooking and it is still used today for these purposes by people in well-wooded underdeveloped countries....[Read more](#)

➤ **Charcoal from Coconut Shell**

Charcoal and purity of any substances has now become a basic requirement of any chemical substance. So many products obtained by processing are dirty in colour and having so many impurities. This problem can be easily solved by adsorption of which carbon has become one of the most generally used materials for the purpose, animal matter. The resulting amorphous products include charcoal coke and petroleum coke....[Read more](#)

➤ Bitumen Emulsion

Bitumen is defined as viscous liquid, or a solid, consisting essentially of hydrocarbons and their derivatives, which is soluble in trichloro-ethylene and is substantially nonvolatile and softens gradually when heated. It is black or brown in colour & possesses waterproofing and adhesive properties. It is obtained by refinery processes from petroleum, and is also found as a natural deposit or as a component of naturally occurring asphalt, in which it is associated with mineral matter....[Read more](#)

➤ Coal Mining

Coal is an extremely heterogeneous, complex material that is difficult to characterize. Coal is a rock formed by geological process and is composed of a number of distinct organic entities (macerals) and lesser amounts of inorganic substances (minerals). Each of the coal macerals and minerals has a unique set of physical and chemical properties, there in turn control the overall behavior of coal....[Read more](#)

➤ Coconut Shell Charcoal

In major importing countries coconut shell charcoal is mainly used in the manufacturing of activated carbon. All the production units are enjoy higher growth rate. The demand for coconut shell charcoal and activated carbon will be increased. There is good market potential for this unit. It also have good export potential....[Read more](#)

➤ **Coal Washing Unit**

Coal washing unit is one of the most important unit for upgradation of coal in sense of fed value by reducing of ash contents in the coal. It is basically associated with seive position to get the quality coal. It is used as fuel for running the boiler, in domestic use, in thermal power station to produce electricity, for manufacture of coal gas etc. Coal is a important source of chemical raw materials.....[Read more](#)

➤ Coal Tar Pitch

Coal tar pitch is the residue from the processing of coal tar. Since pitch constituents over 50% of crude tar, its utilization has a major effect on the economics of tar processing. Coal tar pitch is binder for carbon electrodes base for paints and coating. Pitch is a valuable binder for briquetting and in making electrodes. The aluminium industry of the world depends heavily on electrodes made from petroleum coke, pitch coke and pitch....[Read more](#)

➤ **Activated Charcoal from Wood**

Activated wood charcoal is a very important chemical widely employed by certain gases and vapours in purification in catalytic chemical reactions and decolorization of vegetable oils and sugar solutions. Activated wood charcoal is available in diverse forms like symmetrical pellets, irregular shaped granules and in cubical form....[Read more](#)

➤ Charcoal from Bagasse

Bagasse is one of the major byproduct of sugar crushing industries. Charcoal is a highly porous form of amorphous carbon. It is one of the half burned bagasse product. Raw material bagasse available in India or throughout the world in the sugar producing countries nearly six to eight months. The technology of charcoal from bagasse is indigeneously available. There is no necessity of import of machinery for the production of charcoal. Charcoal is nothing but the elementary form of carbon....[Read more](#)

For more details visit at:

[Coal and Coal by Products, Coal Tar, Coal & Coke, Fossil Fuel, Charcoal, Carbon Black, Coal Washing, Coal Mining](#)

[Handbook on Coal, Lignin, Wood and Rosin Processing](#)

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**

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NIIR PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company

Who are we?

- *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*

What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Business Plan*
- *Market Research Reports*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*

How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *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

Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

Sectors We Cover

- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitality Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

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