



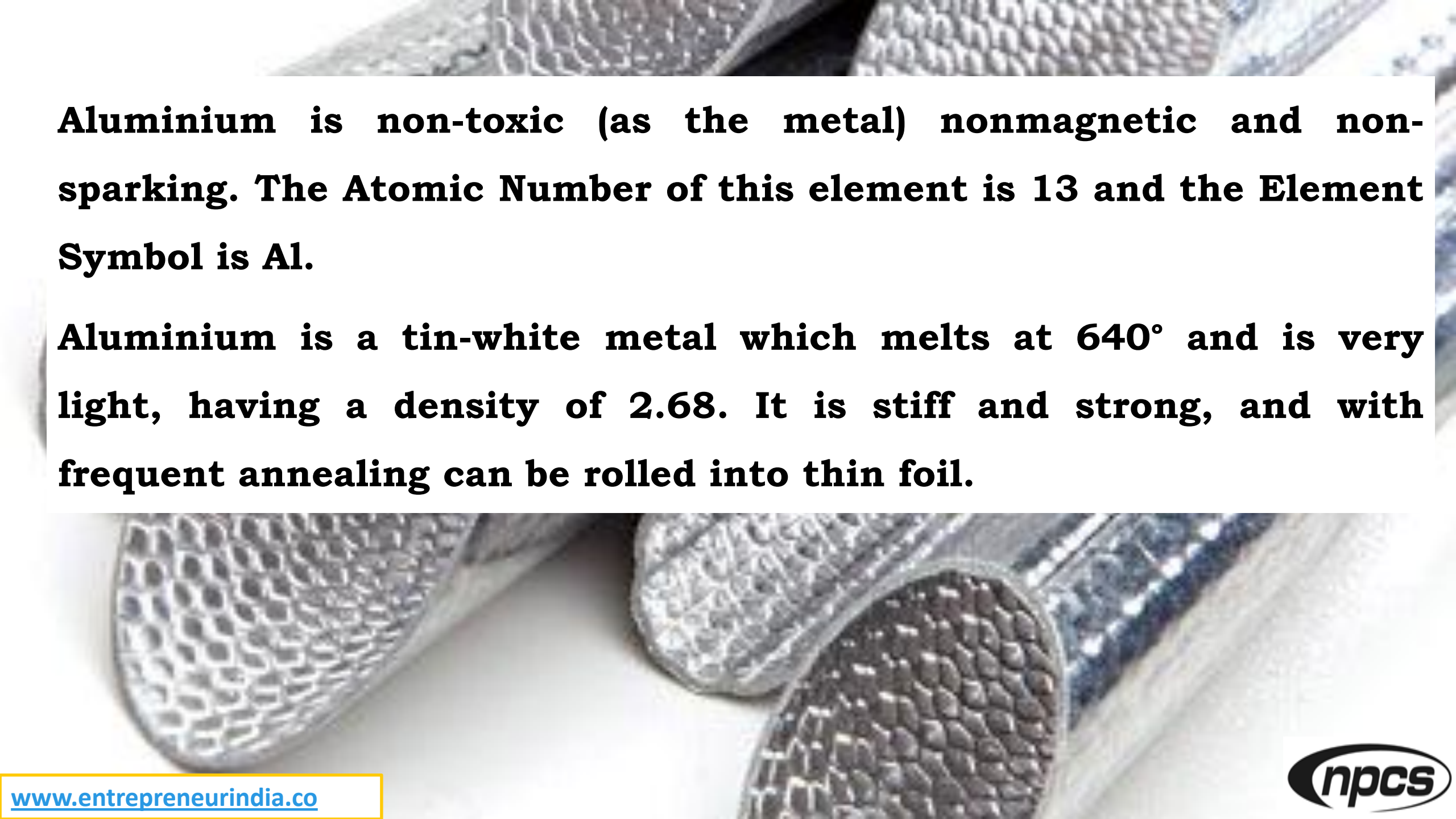
# **Aluminium and Aluminium**

## **Downstream Projects**

(Aluminum Extrusion Profiles & Sections , Metal, Aluminum Products, Cans, Sheet, Extruded Products, Profiles, Doors, Windows, Aluminium Alloys, Tubes and Bars, Round Bars, Channels, Angles, Coils, Bars, Extruded Rods, Sheets, Foil, Automized Aluminium Powder, Aluminium Furniture, Aluminium House Hold Utensils, Aluminium Wire Drawing / Wire Mesh Plant, Anodic Aluminium Labels, Aerosol Cans)

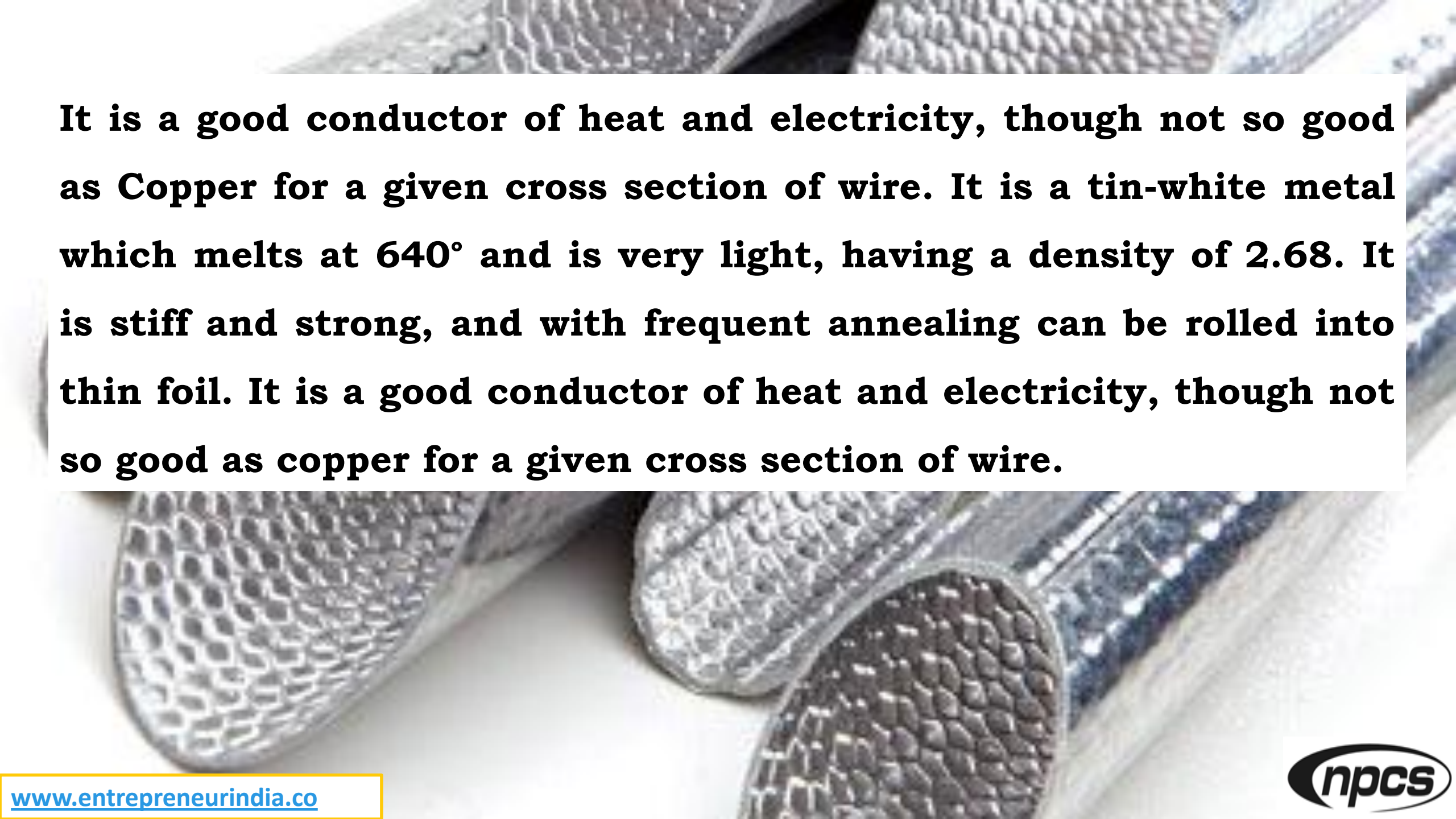
# Introduction

**Aluminium is a silvery-white, ductile metallic element, the most abundant in the earth's crust but found only in combination, chiefly in bauxite. Aluminum occurs naturally in many foods in low concentrations and is also present in many pharmaceuticals and drinking water. Refer to Aluminum Reaction for its reaction to Water, Oxygen & Acids. High levels in the body can be toxic. Having good conductive and thermal properties, it is used to form many hard, light, corrosion-resistant alloys.**



**Aluminium is non-toxic (as the metal) nonmagnetic and non-sparking. The Atomic Number of this element is 13 and the Element Symbol is Al.**

**Aluminium is a tin-white metal which melts at 640° and is very light, having a density of 2.68. It is stiff and strong, and with frequent annealing can be rolled into thin foil.**



**It is a good conductor of heat and electricity, though not so good as Copper for a given cross section of wire. It is a tin-white metal which melts at 640° and is very light, having a density of 2.68. It is stiff and strong, and with frequent annealing can be rolled into thin foil. It is a good conductor of heat and electricity, though not so good as copper for a given cross section of wire.**



## **Market Outlook**

**India is considered to be the fifth largest producer of aluminium in the world with a tremendous bauxite reserve of about 3 billion tonnes. While the major consumption of aluminium in India is done by the electrical (31%) and B&C sectors (13%), the future growth is envisaged to happen in the solar power and industrial sector.**

**India's per capital consumption of aluminium extrusion is amongst the lowest in the world.**

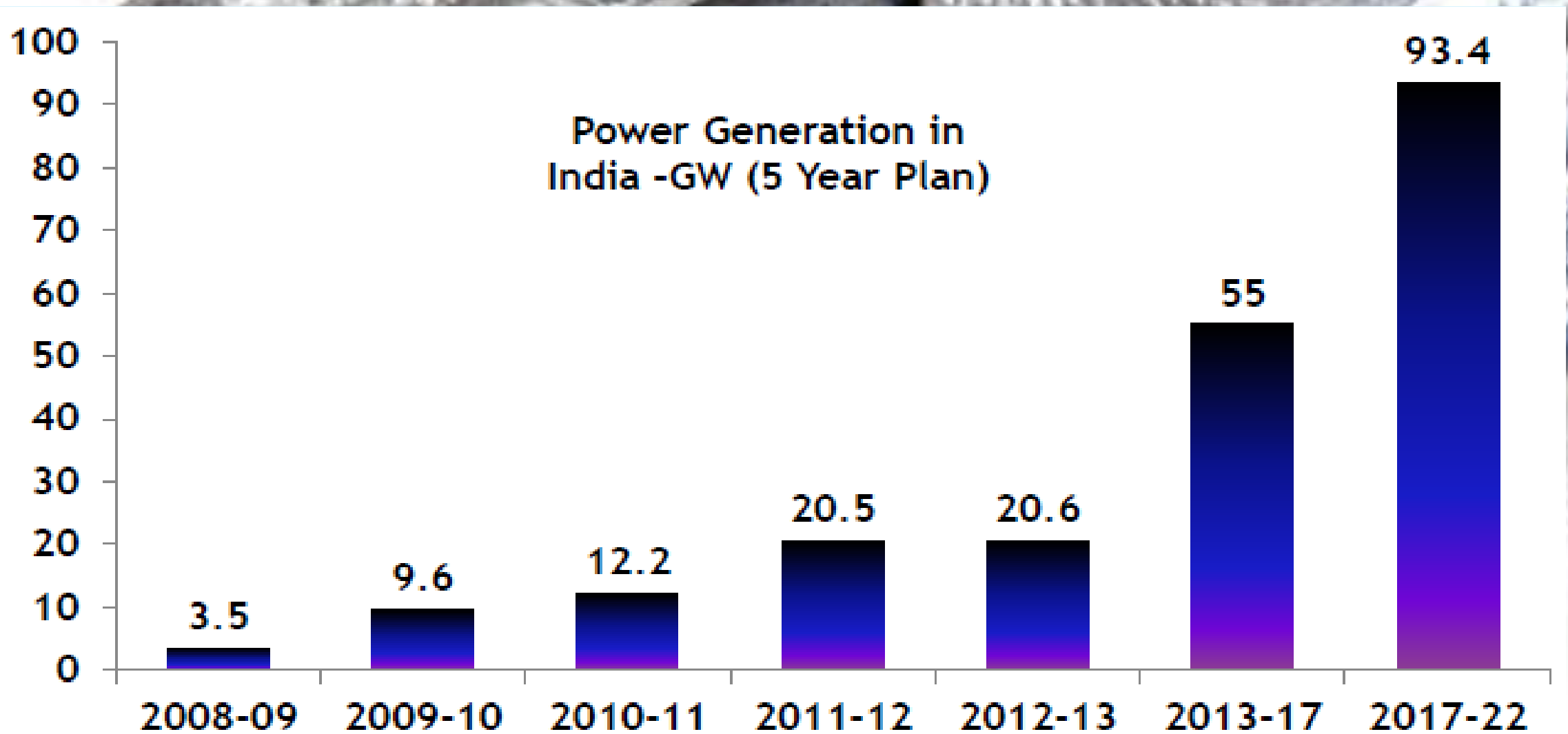
**The primary aluminium consumption increased by 23 per cent and total aluminium consumption increased by 13 per cent in last one year.**

**Aluminium consumption in India to grow from 3.3 million tonne to 5.3 million tonne.**

**India's aluminum demand was expected to go up to 3.5 million mt by 2017-18 against 2.85 mmt in 2014-15.**

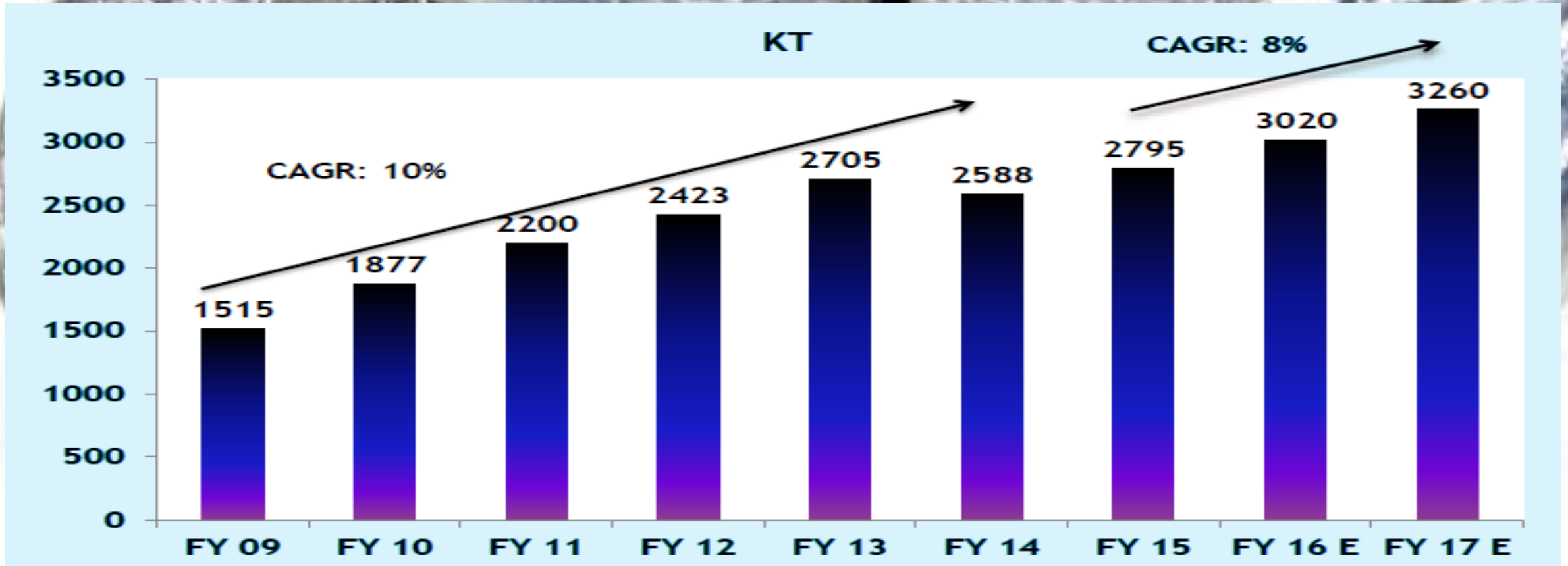
**The CAGR of Aluminium demand in India is expected to be around 7.5 %.**

# Aluminium Powder





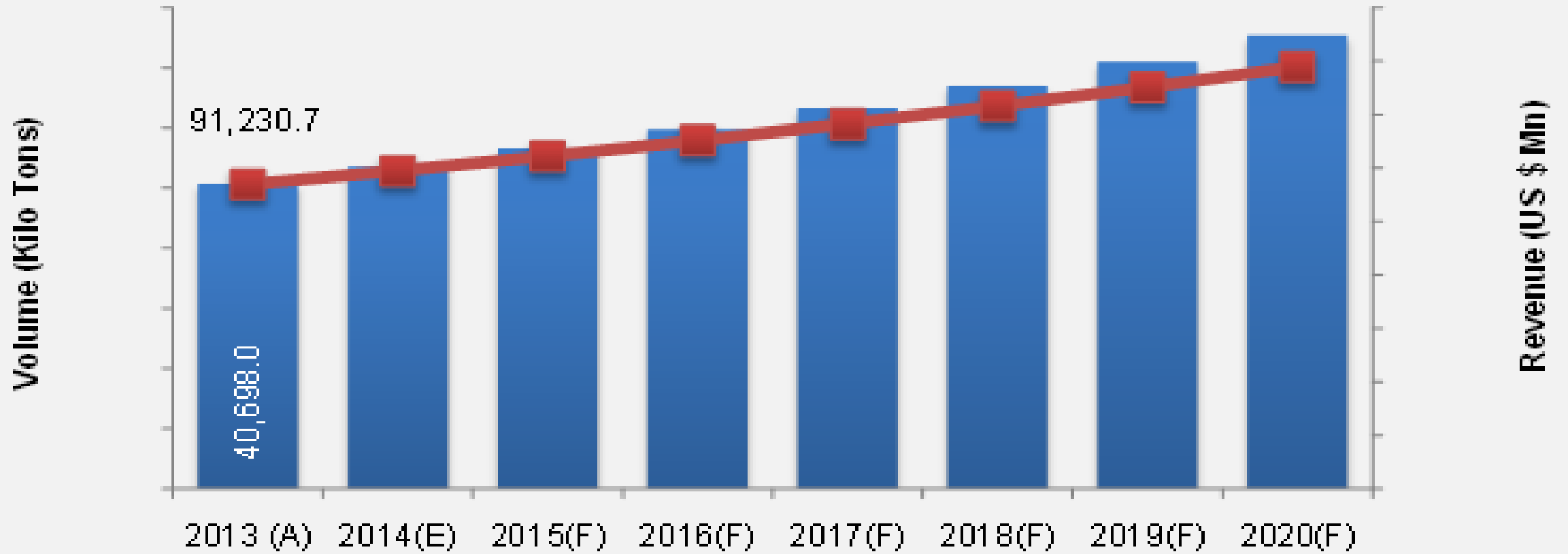
# Aluminium Demand in India





**The global aluminum alloys market is largely fueled by the rapid growth of the transportation and construction industries.**

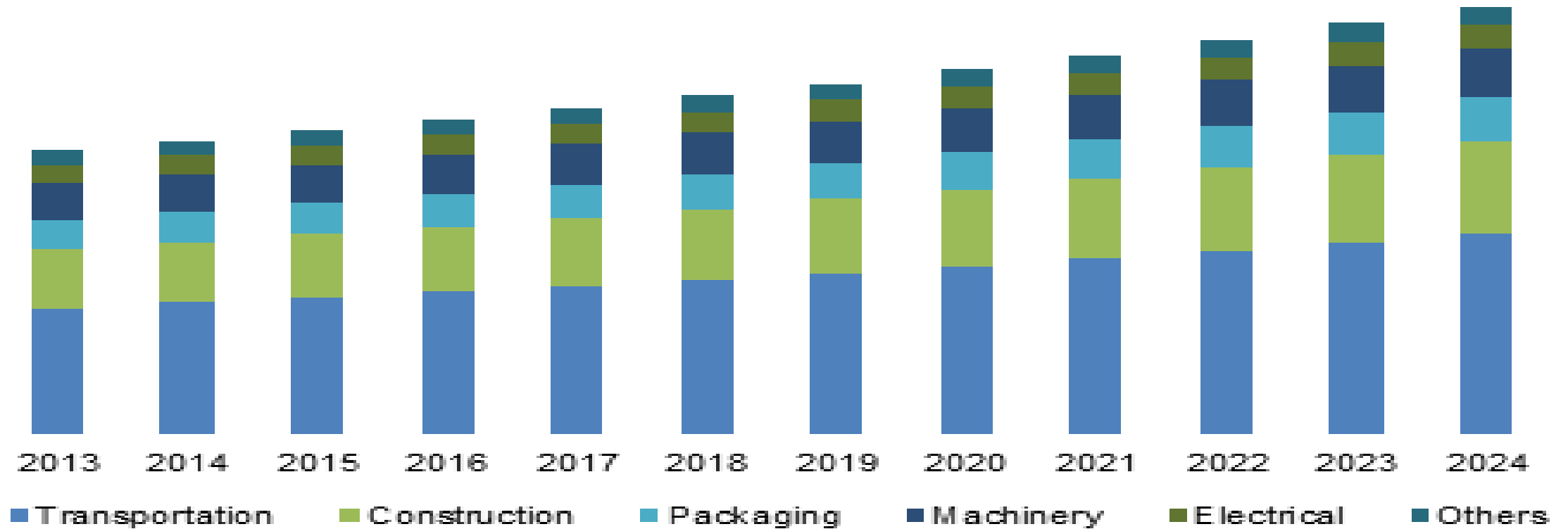
# Global Aluminium Alloys Market

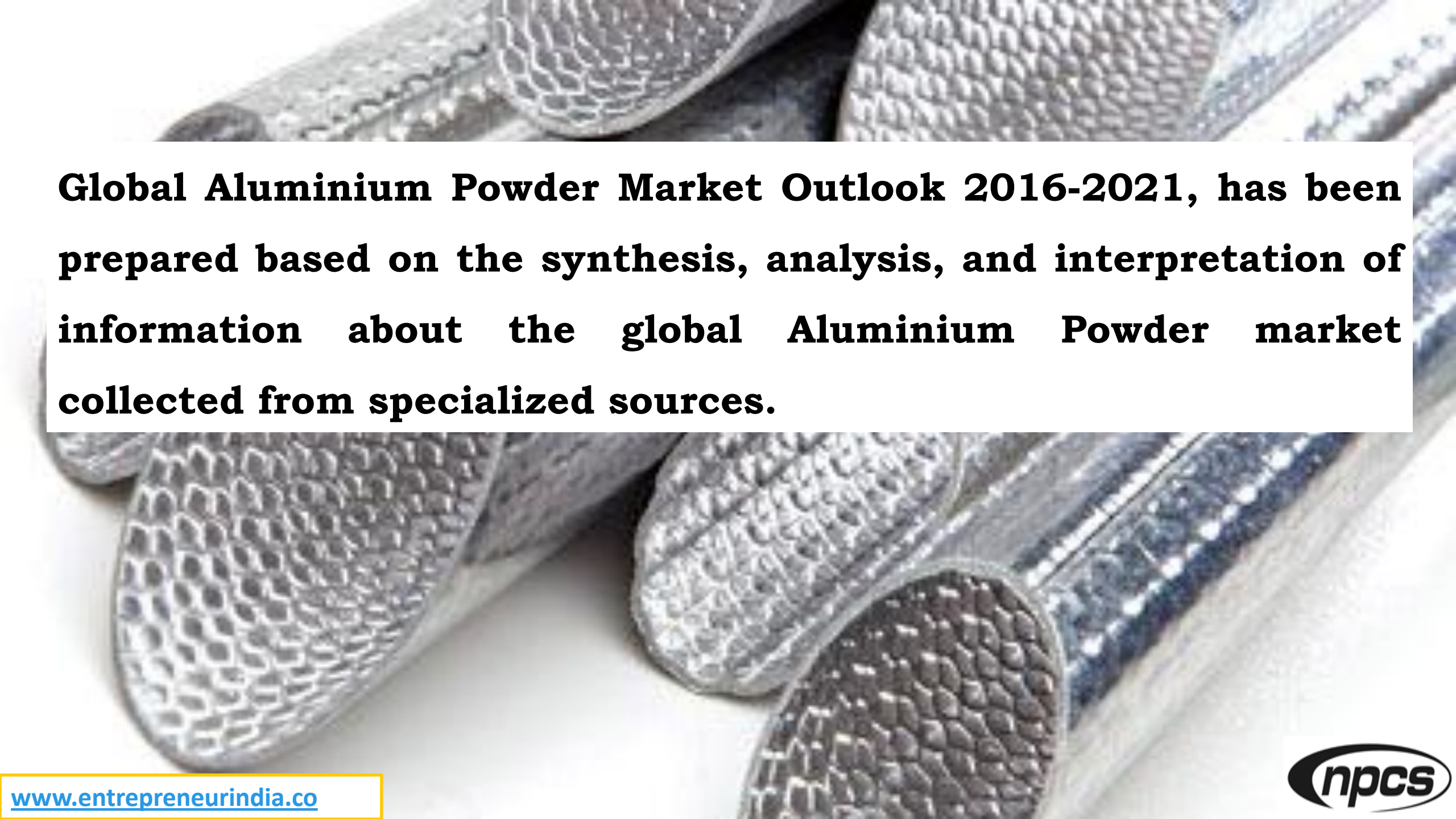


**In 2015, India exported an estimated 14,512 tons of aluminium foil and the total value of export stood at USD 3.1 billion which increased further to total at 16,448 tonnes in 2016.**

**The aluminium foil packaging market is segmented based on type and application. By type, the global aluminium foil packaging market is segmented as plain, laminated, lacquered, and printed. Based on application, the market is segmented into food and beverage packing, pharmaceutical use, technical use, container foil, household foil, heat exchangers, and strip and foils for tubes.**

# Aluminium Alloys Market





**Global Aluminium Powder Market Outlook 2016-2021, has been prepared based on the synthesis, analysis, and interpretation of information about the global Aluminium Powder market collected from specialized sources.**

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

Aluminium and Aluminium Downstream Projects, Aluminum Extrusion Profiles & Sections, Metal, Aluminum Products, Cans, Sheet, Extruded Products, Profiles, Doors, Windows, Aluminium Alloys, Tubes and Bars, Round Bars, Channels, Angles, Coils, Bars, Extruded Rods, Sheets, Foil

## ➤ **Aluminium Foil**

**Aluminium foil is one of the most versatile packaging medium. The growth of this industry has been in the recent past, owing to the growing application of foil in a variety of products. Aluminium foil is regarded as unique material amongst flexible packaging materials. This is because of the characteristic of the foil to retain all metallic characteristics of aluminium. Aluminium foil is a thin sheet of metal. As such it can be an absolute barrier to moisture, gases, odours, bacteria and moulds....[Read more](#)**





## ➤ **Aluminium Alloy from Virgin Metal**

**Aluminium is second most plentiful metallic element on earth become an economic competitor in engineering applications. The aluminium industry growth was not limited to these developments. The first commercial application of aluminium were novelty item such as mirror frames, house number and serving trays....[Read more](#)**

## ➤ **Automized Aluminium Powder**

**Aluminium is a versatile non-ferrous metal having around 3000 identified uses. Powder metallurgy have being defined as the Art and Science of manufacturing useful article from metal powders and producing those powder. Powder metallurgy technique can be broadly into two section: - 1. Preparation and conditioning of the powder (2) processing of powder....[Read more](#)**

## ➤ Aluminium Furniture

**Term furniture is used for articles of daily use in hospitals, public building, business places, and house-etc and also include various items like chairs, table of various sizes, sofa sets, towel stands, T.V. antenna and T.V. stands etc. The use of metal like aluminium for the manufacture of aluminium furniture is however a modern development....[Read more](#)**

## ➤ Aluminium House Hold Utensils

**This is hardly a family in India where glittering aluminium utensils occupy significant place. Aluminium utensils of domestic use are of three broad categories- (1) cooking food, (2) storing and service utensil, (3) Table pot and utensils are used for eating food and drinking water, tea, coffee, milk and juice. Aluminium utensils are longer lasting; require less maintenance costs, these are light and hence handy, unbreakable, economical and attractive in appearance....[Read more](#)**

## ➤ Aluminium Extrusion Plant

**Good Scope for Aluminium Extrusion Plant Extrusion is a process equally suitable for the simplest shapes and for the most complex for the wide range of large and the small items for structural members or for decorative trim. Some sections produced by extrusion cannot be made by other process economically. The two main advantages of this process over other manufacturing processes are its ability to create very complex cross-sections and work materials that are brittle, because the material only encounters compressive and shear stresses....[Read more](#)**

## ➤ **Aluminium Alloy from Scrap and Virgin Metal**

**Aluminium, the second most plentiful metallic element on earth, became an economic competitor in engineering applications as recently as the end of the 19th century. It was to become a metal for its time. The emergence of three important industrial developments would, by demanding material characteristics consistent with the unique qualities of aluminium and its alloys, greatly benefit growth in the production and use of the new metal.**

....[Read more](#)

## ➤ Aluminium Wire Drawing / Wire Mesh Plant

**Aluminium is one of the metal, which is widely available in many countries. There are various uses of aluminium metal of which manufacturing of aluminium wire and wire mesh is one of them. Aluminium wire is largely used in the cable industry as well as alone it is used for electrical transmission. Aluminium is non-corrosive, light and cheap metal, for making aluminium wire, (as conductor) it is required to draw the aluminium thick wire to suitable diameter....[Read more](#)**

## ➤ Aluminium Beverage Cans

**Today the food containers that are being used in our daily living extend over the widest range, from those which are raw material of new materials such as plastics the fruit of modern technology innovation. Aluminium cans are most typical among metal containers. Canned foods are found in great abundance all around us, and include processed fisheries products such as crab, tuna and sardine....[Read more](#)**



## ➤ Aluminium Building Hardware

**Aluminium is most abundant metallic element is used on earth. Various section of aluminium is used in building are rods, wires, channel etc are the starting material for manufacturing these products, by a set of metal working operations like bending, drilling, grinding, welding etc. in small scale industries. Hinges are used for connecting doors. Windows/ventilator flaps to their respective frame in building....[Read more](#)**

## ➤ **Anodic Aluminium Labels**

**Anodic Aluminium Labels used as an industrial, metallic labels and are widely used on industrial machinery and domestic appliances for supplying the specifications, operating procedures and name of the manufacturer. Also nameplates are seen on the houses and buildings. In offices Anodic Aluminium Labels are used to indicate the room numbers and designation of the official etc....[Read more](#)**

## ➤ Aerosol Cans

**The aluminium aerosol can has been one of the most popular packaging materials for cosmetics, pharmaceutical and household items for decades. In addition to its ability for recycling in 100%, this modern packaging material meets all relevant European Standards. The indisputable advantage of the aluminium aerosol can is that it is light and strong at the same time; it excludes the possibility of corrosion and its packaging provides hermetical protection for the completed products....[Read more](#)**

# For more details visit at:

[Aluminium and Aluminium Downstream Projects, Aluminum Extrusion Profiles & Sections , Metal, Aluminum Products, Cans, Sheet, Extruded Products, Profiles, Doors, Windows, Aluminium Alloys, Tubes and Bars, Round Bars, Channels, Angles, Coils, Bars, Extruded Rods, Sheets, Foil](#)

[The Complete Technology Book on Aluminium and Aluminium Products](#)

# 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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# Contact us

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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*

# Contact us

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