



Production of Ethanol from Grains: Corn, Wheat, Sugarcane & Barley.

Production Capacity: 10KL/Day
Plant and Machinery: 15 cr

**Profitable Business
Opportunity**

INTRODUCTION

Ethanol is considered the first generation of biofuels. Starch, sugar, and vegetable oil are used to make this fuel. It's made commercially from decomposing corn and wheat. Ethanol-producing plants are referred to as bio refineries. This is because they transform grain biomass into ethanol using live enzymes and microorganisms.

Production of Ethanol from Grains

Ethanol derived from grain production converts agricultural waste items into fuel. This fuel can be used in gasoline or diesel-powered cars, trucks, and other means of transportation. It also burns cleaner than fossil fuels, making it both more environmentally friendly and less expensive to generate than other ethanol sources now accessible. Dry milling, wet milling, and solvent refining are the three ways for producing ethanol from grain.

Cleaning the agricultural waste products to eliminate any chemicals or undesired material is the first step in all three of these procedures. Ethanol is one of three types of alcohol that can be produced from grain (the other two are methanol and butanol). Any type of grain, including corn, barley, wheat, and even grasses, can be used to generate ethanol. Ethanol is a renewable energy source since it can be generated from organic materials found in plants. It is made by drying grains and then putting them into a fermenter to be turned into sugar by yeast.

Advantages of Grain Based Ethanol

One of ethanol's biggest advantages is that it can be made from feedstocks that would otherwise be used for food. Corn and sugarcane, which are farmed primarily to produce food, can also be used to make ethanol, but our country's abundant grain-based production makes ethanol made from grain a very viable source of fuel. It has been estimated that as much as half of all grain produced in the U.S. could be converted into ethanol with existing technology.

That means we have enough corn alone to provide up to 700 billion gallons of ethanol per year. And that's just one crop! This could dramatically reduce our dependence on foreign oil while bolstering rural economies across America at little cost to consumers. Ethanol from grain provides roughly 3 times more energy than it takes to produce. In addition, many companies have already begun using ethanol derived from their own leftover agricultural products.

Market Size

From 2021 to 2030, the global ethanol market is predicted to increase at a CAGR of 5.2 percent, from USD 93.7 billion in 2020 to USD 155.6 billion in 2030. With a market share of 67.3 percent, the grain-based category dominated the global market. The segment's expansion has been aided by the widespread availability of corn and maize, as well as the development of efficient technologies around the world. Dry milling is the most common method for producing grain-based ethanol, and one bushel of maize can provide 2.86 gallons of denatured ethanol.

Market Demand of Ethanol in India

On the strength of increased ethanol use in applications such as gasoline additives, the Indian ethanol market is expected to rise from \$ 2.50 billion in 2018 to \$ 7.38 billion by 2024, with a CAGR of 14.50 percent from 2019 to 2024. The Indian government is attempting to minimize its reliance on imported crude oil by encouraging sugar producers in India to make ethanol for Oil Marketing Companies (OMCs).

In order to fulfil the demand for its 20% Fuel Blending Program, ethanol output is likely to expand three to fivefold in the future (FBP). The demand for ethanol in the country is likely to be driven by factors such as rising alcohol consumption, changing lifestyles, and the expanding impact of western culture.

TAGS

DetailedProjectReport **#BusinessIdeas**
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#Startup **#Business** **#BusinessConsultant** **#ProjectReport**
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#EthanolManufacturingIndustry **#EthanolManufacturing**
#EthanolProduction **#Ethanol** **#EthanolfromGrain**
#GrainBasedEthanol



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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?**

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10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?

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26. What are the Market Opportunities for setting up the plant?

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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**
- ✓ **This report provides vital information on the product like it's characteristics and segmentation**
- ✓ **This report helps you market and place the product correctly by identifying the target customer group of the product**

- ✓ **This 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 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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Entrepreneur India



Who are we?

A trusted and leading name in the industry, we have been putting forth exceptionally integrated and comprehensive technical consultancy services. We believe that project consultancy serves as a critical element for the success of your projects. Moreover, we keep in mind that no client is the same and nor are the requirements. Therefore, we ensure uniqueness in every service you avail from us.

What do we offer?

- **Project Identification**
- **Detailed Project Reports/Pre-feasibility Reports**
- **Market Research Reports**
- **Business Plan**
- **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

Sectors We Cover *Cont...*

- 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

Sectors We Cover *Cont...*

- 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

Sectors We Cover *Cont...*

- 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

Sectors We Cover *Cont...*

- 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.

Sectors We Cover *Cont...*

- 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.

Sectors We Cover *Cont...*

- 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

Sectors We Cover *Cont...*

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

Objective

- To get a detailed scenario of the industry along with its structure and classification
- To provide a comprehensive analysis of the industry by covering aspects like:
 - Growth drivers of the industry
 - Latest market trends
 - Insights on regulatory framework
 - SWOT Analysis
 - Demand-Supply Situation
 - Foreign Trade
 - Porters 5 Forces Analysis

Objective

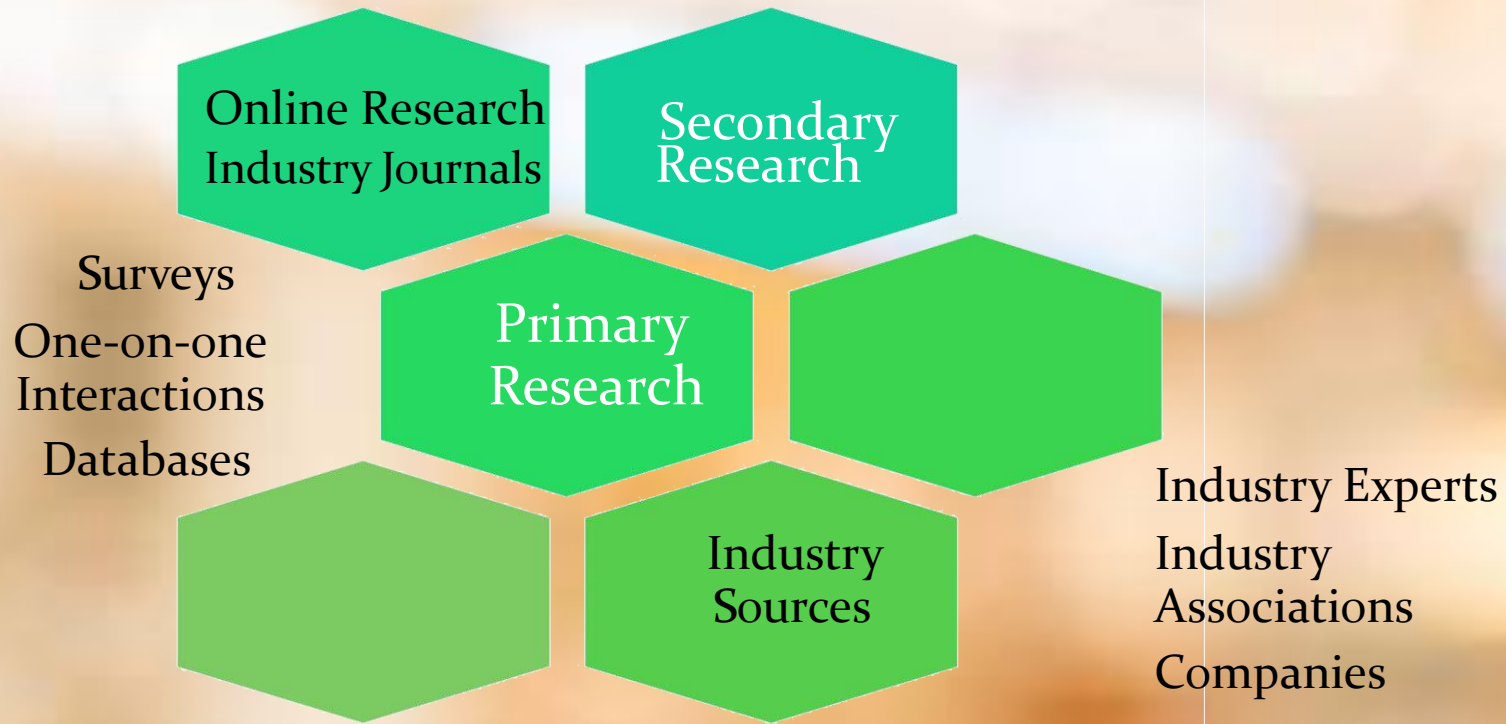
- To provide forecasts of key parameters which helps to anticipate the industry performance
- To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- To help an entrepreneur/manager in keeping abreast with the changes in the industry
- To evaluate the competitive landscape of the industry by detailing:
 - Key players with their market shares
 - Financial comparison of present players

Clientele

- Venturist/Capitalists
- Entrepreneur/Companies
- Industry Researchers
- Investment Funds
- Foreign Investors, NRI's
- Project Consultants/Chartered Accountants
- Banks
- Corporates

[Click here for list](#)

Data Sources



Scope & Coverage



Our Team

∞ Our research team comprises of experts from various financial fields:

∞ MBA's

∞ Industry Researchers

∞ Financial Planners

∞ Research veterans with decades of experience

Structure of the Report

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 - 2.2 Emerging Trends in the Industry
 - 2.3 Regulatory Framework
 - 2.4 SWOT Analysis
 - 2.5 Herfindahl–Hirschman Index (HHI)
3. Market Forecasts
4. Key Players

Structure of the Report

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- 5. Key Financials and Analysis
 - 5.1 Contact Information
 - 5.2 Key Financials
 - 5.3 Financial comparison
- 6. Industry Size & Outlook



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