



# **Wood Pellets Production from Sawdust.**

**Earn Money from Wood Waste  
(Sawdust).**

**Turning Sawdust into Briquettes.**

# *Introduction*

**Wood pellets, known for generating low emission and high power is gaining attention as an alternative to fossil fuels. Consumption of wood pellets for heating and power generation offers great advantages over burning fossil fuels, including renewability, low requirement of work input, cheap operating costs, and less emission of harmful substances.**





**Based on feedstock, the Wood Pellets Market is segmented into forest residues, agricultural residues, and energy crops. On the basis of the type of pellet heating appliance, the market segmentation includes free standing pellet stoves, pellet stove inserts, and pellet boilers. According to the application, it is categorized into power generation in industries, co-firing in industries, heating in residential sites, and heating in commercial sites.**

**Wood pellets have emerged as a viable and promising renewable energy source replacing coal in various advanced regions such as North America and Europe. The market for these biomass gained traction since they are considered to have low carbon footprints. The use of wood pellets as fuels has gained adoption for heating homes and power boilers, especially in various countries of Europe. The easy availability of raw materials such as timber and compacted sawdust and the low cost of production are key factors offering robust impetus to the wood pellets market. The mounting environmental concern about greenhouse gas emissions (GHGs) in countries such as the U.S., Canada, and Russia has made biomass fuels popular. In recent years, considerable progress made in logistics and advancement in combustion technology have boosted the wood pellets market.**

**Wood pellets are fast becoming popular in North America owing to the increasing prices of primary fuel. Demand for wood pellets in North America as a bio-mass fuel is increasing significantly, attributed to high demand for industrial as well as commercial purposes. Rising prices of fossil fuels including natural gas and fuel oil is one of the major driving factors for wood pellet heating. Concerns about climate change in North America is also stimulating the growth of the wood pellet market in the region.**

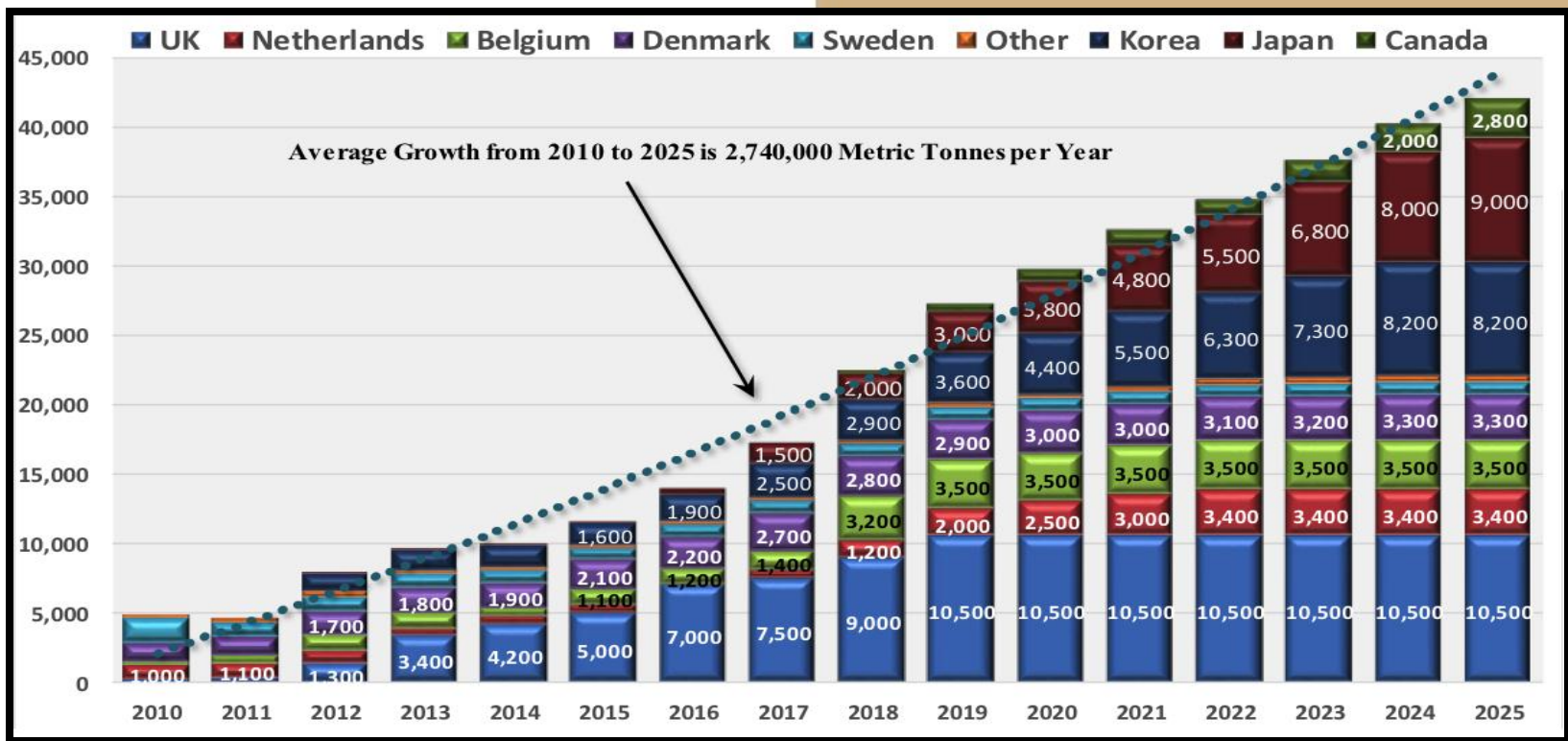
**Wood pellet markets comprise two primary sectors: industrial wood pellets that are used as a substitute for coal in power plants, and premium pellets used in pellet stoves and pellet boilers for heating.**

**Increasing carbon emission is a major driving force for the wood pellet market in the Western Europe region. There is high demand for wood pellets in this region to reduce carbon emission and raise the contribution of total renewable energy consumption. The use of co-firing and dedicated biomass power plants is a part of the compliance plan, which helps drive the wood pellet market in this region.**



# Industrial Wood Pellet Demand Forecast for the future, UK, Japan and Canada

*(Thousands of metric tonnes)*



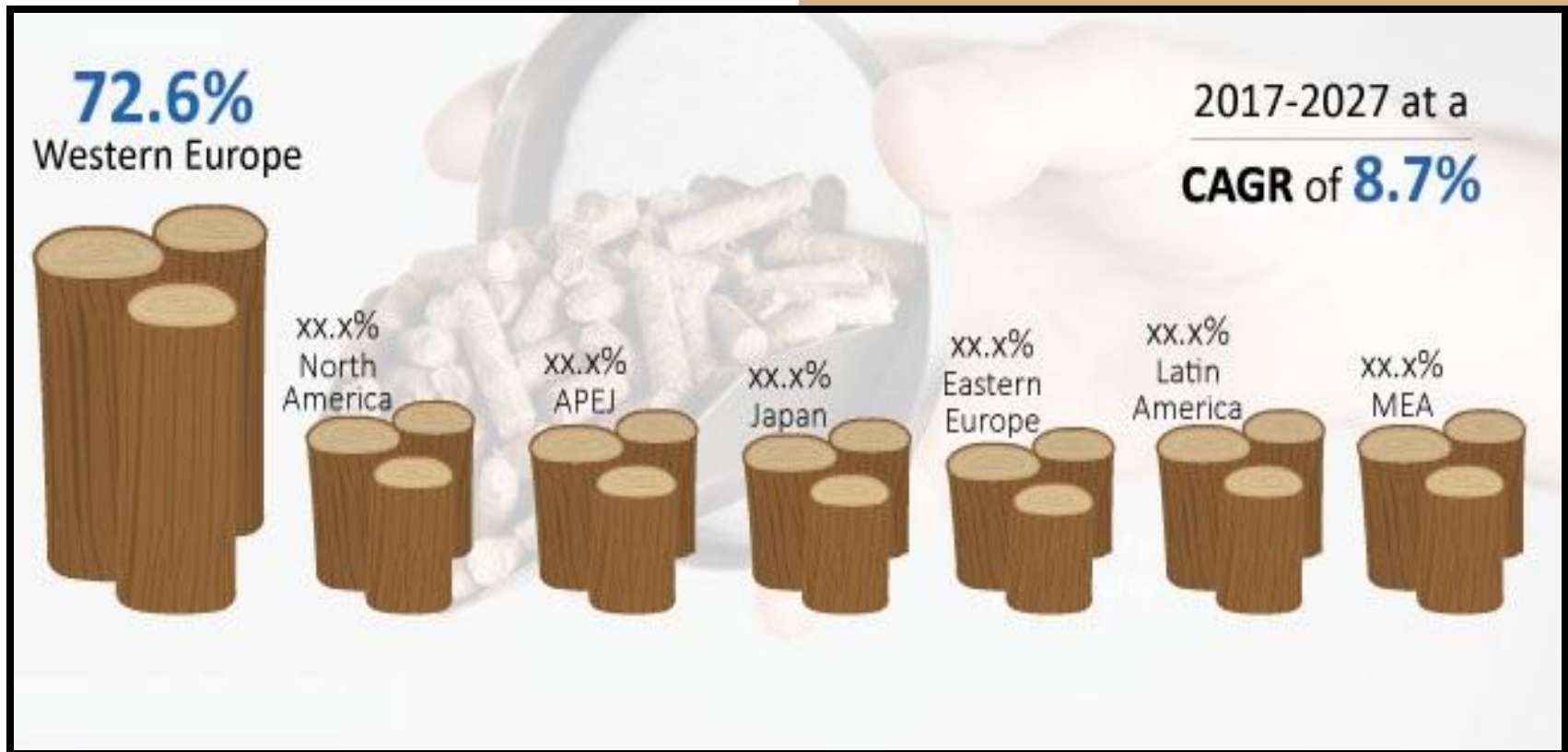
**Based on geography, the market is segmented into Europe, Asia Pacific, North America, Central and South America, and the Middle East and Africa. Of these, Europe is a major market for wood pellets and led the market in 2015. The substantial demand for wood pellets from the U.K. has fuelled this regional market. The regional market is propelled by numerous government initiatives such as significant fiscal subsidies to boost the generation of renewable sources of energy. This has incentivized the use of wood pellets to produce electrical energy in this region.**



**The primary applications of the wood pellets are for heating and in power plants. The heating application segment held a major market share in 2016 and is expected to lead the overall market by revenue through the forecast period. The wide application of wood pellets for heating industrial and residential establishments is expected to boost the growth of segment in the coming years. The growing popularity of pellet fuel in advanced nations such as Canada is expected to bolster the demand for wood pellets in various regions. Recent advancements in wood pellet manufacturing processes have improved the commercial production of biomass, thereby accentuating the demand for wood pellets in heating applications. Furthermore, the setting of these manufacturing units are less capital-intensive than those for wind and solar energy, which has boosted the application of wood pellets for heating applications.**

**The global wood pallet market is estimated to be valued at nearly US\$ 9,205 Mn by 2017 end and is expected to register a CAGR of 8.7% over the forecast period to be valued at nearly US\$ 21 Bn by the end of 2027. Amongst all regions, Western Europe is anticipated to account for 72.6% value share in the global wood pellet market by 2017 end, followed by North America with 7.8% value share. Western Europe is anticipated to exhibit a higher incremental value during the forecast period as compared to other regions. Asia Pacific excluding Japan is projected to register a CAGR of 9.9% over the forecast period to account for 8.7% value share by 2027 end. Middle East and Africa is expected to account for 0.7% value share in the global wood pellet market by 2017 end. The market in MEA will register a CAGR of 7.4% over the forecast period.**

# Global Wood Pellet Market Value Analysis (%), By Region (2017)



**Sawdust is a kind of by-product from cutting, grinding, drilling, sanding or pulverizing wood with a saw or other tools. Traditionally it is used for making particleboard to make furniture or wood pulp to produce paper; also can be served as mulch, alternative to clay cat litter. The most significant role of sawdust is played as fuel by processed into pellets.**

**It is an emerging and promising career to make wood pellets from sawdust. Nowadays, hundreds of countries all over the world have built their factories of making wood pellets from sawdust.**

## ***Usages of Sawdust Pellets:***

- **As a matter of fact, sawdust pellet made from waste wood is a good kind of fuel to replace traditional fossil fuels like coal, gas, petrol, etc. It can be used for burning in a stove to cook at home;**
- **Heat the house, school, hotel, or greenhouse, farm;**
- **Industrial scale sawdust pellets production can be used in thermal power plants to replace coal.**
- **Used as cat litter to replace clay;**
- **Also can be used as horse bedding, or beddings for cow, chicken, dogs, and other animals.**
- **Other usages waiting to be discovered.**

## ***Steps of Sawdust Pellets Making Process:***

- **Get the raw material ready. Generally sawdust is small enough for pellet making. So the first step is to add water to the sawdust till its moisture content is between 8-15%, which is the best moisture content for pelletizing. But if the raw material is wood chips, they should be pulverized first.**
- **Put the sawdust into the pellet machine gradually. Large scale pellet production need a screw feeder to make sure stable feeding of raw material.**

- **After pelletized, the sawdust pellets are of high temperature that is not suitable for direct packing. So they should be cooled by pellet cooler.**
- **Then, pellets go through a vibrating sieve, where good pellets will be left, while broken ones or powder will be collected for reproduction.**
- **After all the above procedures, pellets can be packed with a pellet packing machine.**



# *Sawdust Pellets Making Process*



Sawdust



Pellet Machine



Cooler



Packing Machine



Pellets in Bags



Burning



# Machinery Photographs



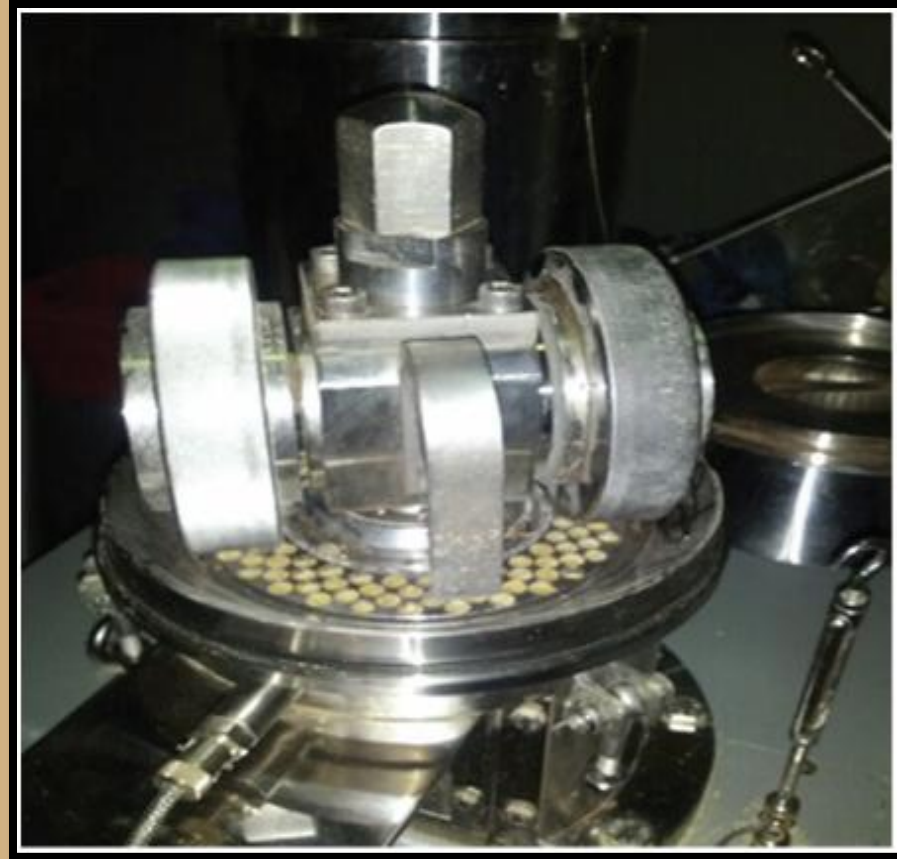
**HAMMER MILL**



**CYCLONE SEPARATOR**



**COUNTER FLOW COOLER**



**PELLET MILL**

# Project at a Glance

## PROJECT AT A GLANCE

( in lacs)

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	54.60	54.60	Capital	0.00	87.57	87.57
Buildings	0.00	141.25	141.25	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	80.00	80.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	34.00	34.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	10.00	10.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	262.72	262.72
Preliminary & Pre-operative Exp	0.00	3.00	3.00	Debentures / Bonds Unsecured	0.00	0.00	0.00
Provision for Contingencies	0.00	8.00	8.00	Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	11.44	11.44				
<b>TOTAL</b>	<b>0.00</b>	<b>350.29</b>	<b>350.29</b>	<b>TOTAL</b>	<b>0.00</b>	<b>350.29</b>	<b>350.29</b>

# Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS				Per Share	Per Share				
1-2	5.48	9.24	15.48	24.00	0.00	100.00	5.48	0.00	5.48	1.00	0.00
2-3	8.34	11.65	23.82	18.00	0.00	100.00	8.34	0.00	8.34	1.00	0.00
3-4	11.14	14.06	34.95	12.00	0.00	100.00	11.14	0.00	11.14	1.00	0.00
4-5	13.84	16.43	48.80	6.00	0.00	100.00	13.84	0.00	13.84	1.00	0.00
5-6	16.45	18.73	65.24	0.00	0.00	100.00	16.45	0.00	16.45	1.00	0.00

# Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.35	1.35		1.55	1.55	1.83		30.13%	15.83%	10.75%	280.37	62.81%	1.19	0.86
2-3	1.66	1.50		0.76	0.76	0.96		33.33%	21.57%	14.02%	327.10	62.81%	1.30	1.38
3-4	2.02	1.66	2.02	0.34	0.34	0.50		35.49%	25.62%	16.38%	373.82	62.81%	1.31	2.06
4-5	2.45	1.83		0.12	0.12	0.25		36.97%	28.52%	18.11%	420.55	62.81%	1.27	2.85
5-6	2.97	2.02		0.00	0.00	0.11		37.97%	30.60%	19.36%	467.28	62.81%	1.19	6.98

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	46.99%
Total BEP (% of Installed Capacity)	51.28%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	26.42%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	3.491

# Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Wood Pellets Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Wood Pellets Manufacturing Business?**
- 7. What are the operating costs for setting up Wood Pellets Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Wood Pellets Manufacturing plant ?**





**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Wood Pellets Manufacturing plant ?**

**10. What are the requirements of raw material for setting up Wood Pellets Manufacturing plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Wood Pellets Manufacturing Business?**

**12. What is the Manufacturing Process of Wood Pellets from Saw Dust?**



- 13. What is the total size of land required for setting up Wood Pellets Manufacturing plant ?**
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# Reasons for Buying our Report:

- **This 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 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**

## ***Scope of the Report***

**The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Wood Pellets provides an insight into Wood Pellets market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Wood Pellets project. The report assesses the market sizing and growth of the Indian Wood Pellets 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**

**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 the Wood Pellets sector in India along with its business prospects. Through this report we have identified Wood Pellets project as a lucrative investment avenue.**

# Tags

Sawdust Wood Pellet Making Process, Production of Wood Pellets, Pellet Production, How to Make Wood Pellets From Sawdust? Sawdust Wood Pellet Making Business, Opportunities for Wood Pellets Made of Sawdust in India, Sawdust Pellet Production, How to Make Wood Pellets, Production of Wood Pellets, Wood Pellet Manufacture, Wood Pellet Production, Wood Pellet Manufacturing Plant, Sawdust Pellet Plant, Biomass Pellet, Wood Biomass, Sawdust Pellets for Fuel, Pellets Made From Hardwood Saw Dust, How to Make Your own Wood Pellets, How to Make Wood Pellets? How to Make Your Own Wood Pellets from Saw Dust? Wood Pellets Production Process, Pellets Production Process, How to Make Pellets? Pellet Making Process, Manufacturing Fuel Pellets from Biomass, Process of Wood Pellet Manufacturing, Wood Pellets Manufacturing Plant, Wood Pellet Manufacturing Process, Wood Fuel Pellet Manufacturing, Production Process Wood Pellet from Saw Dust, How to Start a Biomass Pellet Plant, Wood Pellets Production Plant, How to Start a Wood Pellet Business, Costs of Starting Wood Pelletizing Business, Business Plan for Wood Pellets Production, I Want to Start a Manufacturing Unit for Biomass Pellets in India, Pre-Feasibility Analysis of Pellet Manufacturing,

Free Wood Pellet Manufacture Business Plan, Large-Scale Wood Pellets Production, How to Set up a Pellet Fuel Manufacturing Plant, Wood Pellets Production Business, Wood Pellet Manufacturing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Wood Pellet Manufacturing Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Wood Pellet Manufacturing Industry in India, Wood Pellet Production Projects, New project profile on Wood Pellet Manufacturing industries, Project Report on Wood Pellet Production Industry, Detailed Project Report on Wood Pellet Production, Project Report on Wood Pellet Production, Pre-Investment Feasibility Study on Wood Pellet Production, Techno-Economic feasibility study on Wood Pellet Production, Feasibility report on Wood Pellet Production, Free Project Profile on Wood Pellet Production, Project profile on Wood Pellet Production, Download free project profile on Wood Pellet Production, Startup Project for Wood Pellet Production, Project report for bank loan, Project report for bank finance, Project report format for bank loan in excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel, Turning sawdust into briquettes, Using Wood Waste (Sawdust) to Make Press wood Pallet or Pallet Block (Used in Pallet as Feet), Wood Pellets Production from Saw Dust, Opportunities in Production of Wood Pellets from Sawdust, How to Start a Wood Pellet Business, What can I do with wood wasted (sawdust) to earn money? Earn Money from Wood Waste (Sawdust), Opportunities in Production of Wood Pellets from Sawdust, Turning Sawdust into Briquettes

**Niir Project Consultancy Services (NPCS)  
can provide Detailed Project Report on  
Wood Pellets Production from  
Sawdust.**

**Earn Money from Wood Waste  
(Sawdust).**

**Turning Sawdust into Briquettes.**

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### ▪ Detailed Project Reports

**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.**



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**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](#)**



# Contact us

## **NIIR PROJECT CONSULTANCY SERVICES**

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# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



[www.entrepreneurindia.co](http://www.entrepreneurindia.co)

## 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*





*We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.*



*We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.*



## 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**



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