

Wood Plastic Composite (WPC) Manufacturing Business. Start a Plastic Wood Composite Unit.

WPC Board Production



[NPCS/4611/23228]

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Introduction

Wood Plastic Composite is a hybrid material which combines the qualities of wood and the ease of workability of plastic. It is a composite material which has replaced natural wood and is sustainable as it is made of waste wood and recycled plastic. It is widely used in outdoor decking floors, railings, fences, cladding, outdoor landscape, cornices, door and window frames, indoor furniture, outdoor furniture etc.



Wood used in bio-composites is often obtained from side streams of wood products and pulp production, making it a low cost feedstock and monetizing wood material that otherwise might be wasted. Wood wastes produced during manufacturing of wood-based products such as paper, cardboard, crates, pallets, furniture and by-products of textile industry could also serve as reinforcement in a matrix of plastic composites, depending on the availability and suitability of these recycled materials. The wood fiber could also be in the form of fines that are formed as residue in the transportation stage of industrial bioenergy pellets, which are often exported overseas.



The main advantages of using Wood Plastic

Composite are:

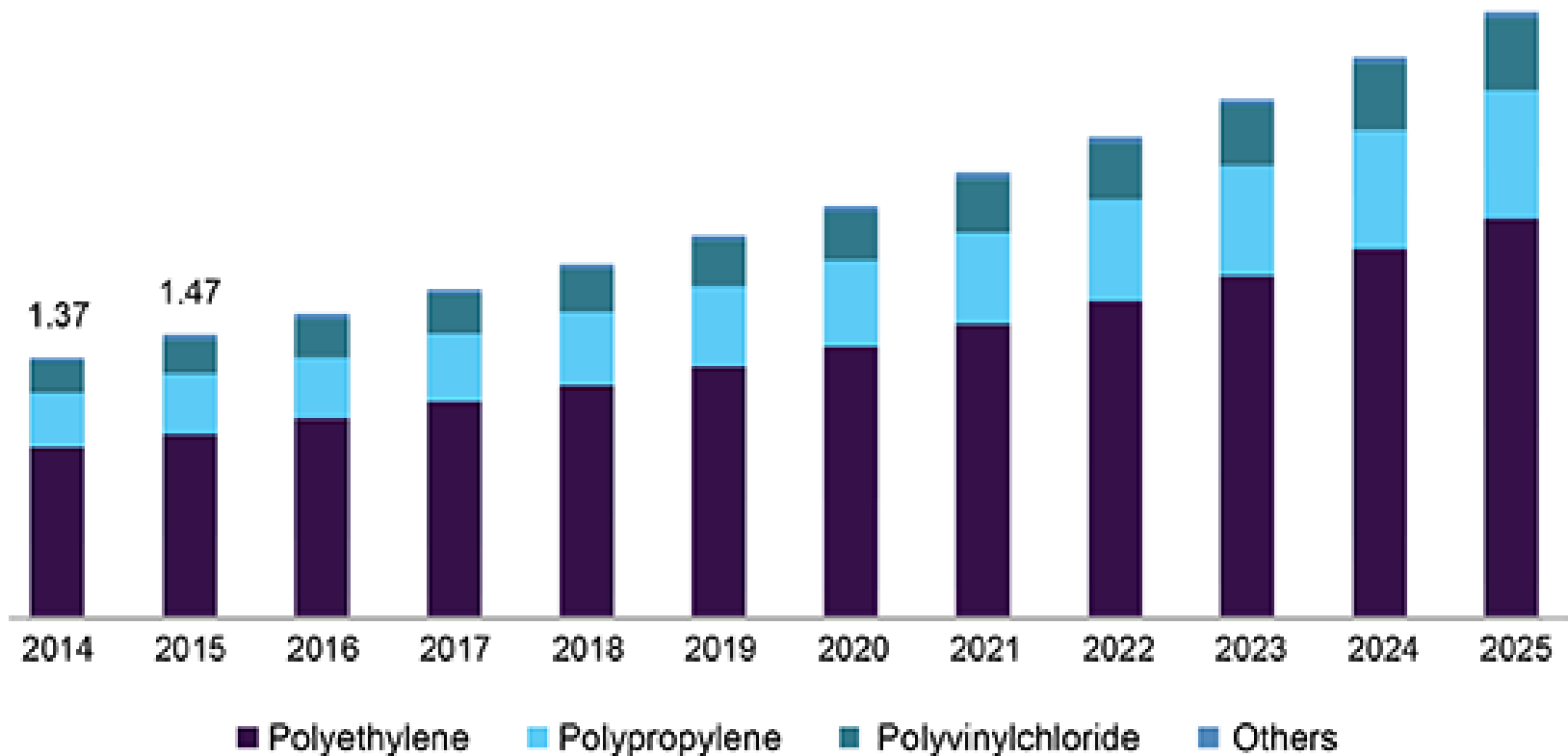
- **The material is very easy to maintain and clean.**
- **The material is resistant to ultra violet light and its colour does not fade easily.**
- **WPC Board is highly durable and is not affected by rain, snow or peak summer conditions.**
- **The material is slip resistant hence is a very good material when used as deck flooring especially near swimming pools.**
- **It is a very good cladding material and is highly weather resistant. It is available in many colours and textures which add to the beauty of the building.**
- **It is a costly material but is effective in the long run.**

Market Outlook

WPC boards is achieving a good absorbency amongst plywood and natural wooden boards. Now, demand for exterior decking also is increasing. Thus India is using WPVC boards in versatile applications (in own style and methods) taking from bus flooring to fish boxes and wall paneling to serving trays.

The global wood plastic composite market size was estimated at USD 4.01 billion in 2017, progressing at a CAGR of 9.3% over the forecast period. Rising demand for lightweight and durable products in the automotive and construction industries is expected to drive demand over the coming years.

Wood Plastic Composite Market Size, by Type, 2014-2025 (USD Billion)



The building and construction sector is a leading consumer of WPC products, followed by the automotive and consumer goods industries. Leading manufacturers in the industry are focusing more on R&D pertaining to use of advanced polymers in order to improve durability.

These composites are growing at the highest rate among the plastic additives. Innovative uses for wood-based composites are constantly accomplished. These hybrid materials provide sustainability, longevity, and cost savings in a wide array of applications such as car speakers, interiors, home furniture, and kitchen accessories.



The global wood plastic composites market is driven by high availability of non-utilized plastic and wood wastes, increase in demand from building & construction applications, and stringent regulations on the use of chemicals in building materials. However, rise in cost of raw materials and issues related to mechanical strength and/or weight hamper their potential for several structural applications. Conversely, increase in implementation of biodegradable raw materials is expected to create opportunities in the global WPC market. Market players have adopted merger as their key strategy to widen their brand portfolios and expand their market reach.



The global Wood Plastic Composite market has been divided into seven key geographical regions which includes, North America, Latin America, Western Europe, Eastern Europe, Asia Pacific, Japan, and Middle East & Africa. Asia Pacific will dominate the Wood Plastic composites market. Growth of construction industries in developing economies like India and China will drive the wood plastic composites market. Increasing use of wood plastic composites in infrastructure development will boost the wood plastic composites market. Asia Pacific is followed by North America. Increasing use of Wood Plastic Based decking will be major driving factor for the market in this region. Western Europe is anticipated to grow wood plastic composite market due to growth of automotive industries in Italy, Germany, France and UK. Infrastructure developments and Construction activities in Middle East and Africa will support the wood plastic composites market to grow.

Based on segmentation by application, the wood plastic composite (WPC) includes building and construction products, automotive components, industrial & consumer goods. Building & construction

Based on segmentation by type, the wood plastic composite (WPC) includes polyethylene (PE), polyvinylchloride (PVC) and polypropylene (PP). Polyethylene wood composite segment is also expected to grow at a positive CAGR and hold a significant share owing to its robust features.

The Applications of Wood-Plastic Composites market is used extensively for various purposes. Building and construction applications hold the largest share in WPC market.

Wood-plastic composites are made of wood fibre, thermoplastic, and other materials such as pigments, lubricants, blowing agents, and foaming agents, which are used in small quantities. The application of wood-plastic composites in automobiles is growing, due to the increasing awareness among customers about its various use and benefits. Industrial & consumer goods manufacturers constitute another large segment that uses wood plastic composites. The market for wood-plastic composites is experiencing high growth. With a number of market players involved in R&D, the applicability of WPCs in various application fields has increased exponentially over the past decade.

Major market players in the Global Wood-Plastic Composites market are:

- **Advanced Environmental Recycling Technologies, Inc. (AERT)**
- **Certainteed**
- **Timbertech**
- **Universal Forest Products, Inc.**
- **Fiberon, Llc**



Machinery Photographs



Extrusion Die and T Type Mold



Cooling Conveyor Bridge



Double Screw Extruder



Calibration Platform

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	60.00	60.00	Capital	0.00	139.52	139.52
Buildings	0.00	165.00	165.00	Share Premium	0.00	0.00	0.00
				Other Type Share			
Plant & Machineries	0.00	144.50	144.50	Capital	0.00	0.00	0.00
Motor Vehicles	0.00	18.00	18.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	67.00	67.00	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	418.55	418.55
Preliminary& Pre-operative Exp	0.00	5.00	5.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	14.00	14.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	59.56	59.56				
TOTAL	0.00	558.06	558.06	TOTAL	0.00	558.06	558.06

Project at a Glance

Year	Annualised		Book Value	Debt	Divide nd	Retained Earnings		Payou t	Probab le Market Price	P/E Ratio	Yield Price/ Book Value
	EPS	CEPS	Per Share		Per Share	Per Share				No.of Times	
	`	`	`	`	`	%	`	%	`		%
1-2	5.82	9.57	15.82	24.00	0.00	100.00	5.82	0.00	5.82	1.00	0.00
2-3	9.42	12.71	25.24	18.00	0.00	100.00	9.42	0.00	9.42	1.00	0.00
3-4	12.92	15.82	38.16	12.00	0.00	100.00	12.92	0.00	12.92	1.00	0.00
4-5	16.28	18.84	54.44	6.00	0.00	100.00	16.28	0.00	16.28	1.00	0.00
5-6	19.45	21.72	73.89	0.00	0.00	100.00	19.45	0.00	19.45	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	1.38	1.38		1.52	1.52	2.50		16.63%	6.94%	4.75%	750.46	43.89%	2.28	1.09
2-3	1.78	1.57		0.71	0.71	1.42		18.60%	10.12%	6.59%	837.74	41.99%	2.40	1.36
3-4	2.25	1.78	2.23	0.31	0.31	0.85		19.95%	12.36%	7.91%	956.52	41.95%	2.36	1.70
4-5	2.79	2.00		0.11	0.11	0.53		20.87%	13.95%	8.85%	1075.29	41.92%	2.24	2.09
5-6	3.44	2.23		0.00	0.00	0.34		21.49%	15.05%	9.52%	1194.07	41.90%	2.08	3.11

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	60.90%
Total BEP (% of Installed Capacity)	63.55%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	31.35%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	9.674

Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the Wood Plastic Composite (WPC) Manufacturing Business and who are the key/major players ?**
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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 Plastic Composite (WPC).” provides an insight into Wood Plastic Composite (WPC) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Wood Plastic Composite (WPC) project. The report assesses the market sizing and growth of the Indian Wood Plastic Composite (WPC) 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 Plastic Composite (WPC) sector in India along with its business prospects. Through this report we have identified Wood Plastic Composite (WPC) project as a lucrative investment avenue.

Tags

Wood Plastic Composite, Manufacturing of Wood-Plastic Composite, Wood Plastic Composite Manufacturing Process, Wood-Plastic Composite (WPC), Wood Plastic Composite (WPC) Manufacturing Process, Production of WPCs, Wood Plastic Composite Manufacture, Wood Plastic Composite Manufacturing Process Pdf, Wood Plastic Composite Advantages and Disadvantages, Wood Plastic Composite Pdf, How to Make Wood Plastic Composite, Wood Plastic Composite Extrusion Process, Plastic/Composite Processing, Manufacture of Wood-Plastic Composite, Production of WPC (Wood-Plastic Composite), Wood Plastic Composite Production, Wood-Plastic Composite Production Process, Industrial Production Wood Plastic Composite (WPC), Start a Plastic Wood Composite Unit, Wood Plastic Composite (WPC) Manufacturing Plant, How to Make Plastic Wood, Composite Materials, Project Report on Wood Plastic Composite Manufacturing, Wood Plastic Composite Manufacturing Business, Wood Plastic Composite Manufacturing Business Plan, Business Plan for Wood Plastic Composite Manufacture,

Wood Plastic Composite Manufacturing Project Report, WPC Manufacturing Plant Cost, How to Manufacture WPC, Project Report on Wood Plastic Composite Manufacturing Industry, Detailed Project Report on Wood Plastic Composite Manufacturing, Project Report on Wood Plastic Composite Manufacturing, Pre-Investment Feasibility Study on Plastic/Composite Processing, Techno-Economic feasibility study on Plastic/Composite Processing, Feasibility report on Wood Plastic Composite Manufacturing, Free Project Profile on Plastic Composite Manufacturing, Project profile on Plastic/Composite Processing, Download free project profile on Wood Plastic Composite Manufacturing, Wood Plastic Composite (WPC) Pre-Feasibility Report

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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**
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- **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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- *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

Contact us

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<https://goo.gl/VstWkd>



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