

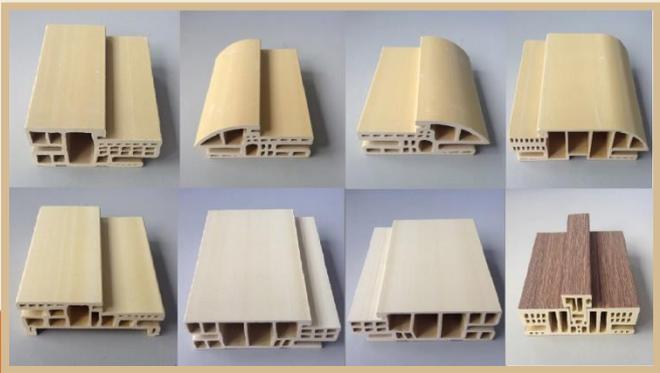
Wood Plastic Composite (WPC) Profiles Manufacturing Industry.

**Production of WPC Profile for Door,
Window Frame and Shutters.**

**Business Opportunities in Building and
Construction Material Sector**

Introduction

Wood-plastic composite (WPC) profiles are made by two main approaches. Direct extrusion from raw ingredients dominates in deck boards and other uncalibrated profiles. However thin-wall, multi-hollow profiles, whose shape is formed with vacuum calibrators, are typically extruded from predried, precompounded pellets, which provide more consistent feeding and reduce the opportunity for formulation errors and surging in the die. For example, until now, all multi-hollow WPC window profiles have been made from pellets.



WPC is now positioning itself strongly for use in “sidings” (wall panelling) and for profiles used in furnishings and interior decoration. WPC profiles are used as flooring, wall panel, skirting board, strips, bars and so on.

Features:

- **High strength**
- **Exclusive design**
- **Fine finish**
- **Longer life**
- **Nominal costs**



Wood-plastic composite is a sustainable green material which provides durability without the use of toxic chemicals. They contain plant fiber, which provides them with relative high strength and stiffness, low density, low CO2 emission, and biodegradability. Automotive manufacturers are focusing on switching to recyclable or biodegradable parts and go for lightweight materials. This has increased the demand for wood plastic composites in the automotive industry.

WPCs are primarily used in automobiles for storage (trims in trunks, shelves for spare tires, etc.), interior door trims, etc. Furthermore, they are often used to replace metal or fiberglass components in automotive components. With automotive production growing through the years, primarily in Asia-Pacific and Europe and region, the consumption of WPCs too will rise in the automotive industry through the forecast period. Automotive parts application is estimated to be the fastest growing segment through the forecast period, while building & construction is expected to dominate the global market owing to the vast application of wood plastic composite in decking.

Globally, increasing demand from building construction activities and increasing demand for recyclable materials in automotive industry is expected to be the prime growth factor for wood plastic composites during the period of study. Geographically, North America dominated the wood plastic composites (WPC) market driven by higher demand and consumption of wood plastic composites materials into a wide range of applications.

Global Wood Plastic Composite (WPC) Market is anticipated to grow at a higher CAGR in the estimated period and is expected to grow consistently in the forthcoming years. Wood plastic composites (WPC) are transformed by extrusion process to gain applications comprising profiles, sheathings, roof tiles, decking and window trims with enhanced thermal and creep performance compared with unfilled plastics. It is necessary to enhance their physical and mechanical properties as well as appearance of such products to have a strong market share in the wood panel composite industry.

Driving factors responsible for the growth of wood plastic composite (WPC) market is mainly due to the growth in demand from building & construction applications and growth in demand for recyclable material in automobile industry.

Global Wood Plastic Composites Market was valued at \$2,551 million in 2016, and is expected to reach at \$6,584 million by 2023, registering a CAGR of 12.6% from 2017 to 2023. Wood plastic composites (WPC) are compounds comprising recycled plastic and wood wastes with beneficial features such as reduced melting temperature resulting in lower energy costs for producers and further reducing the product's environmental impact. These composites are growing at the highest rate among the plastic additives. Innovative uses for wood-based composites are constantly accomplished.

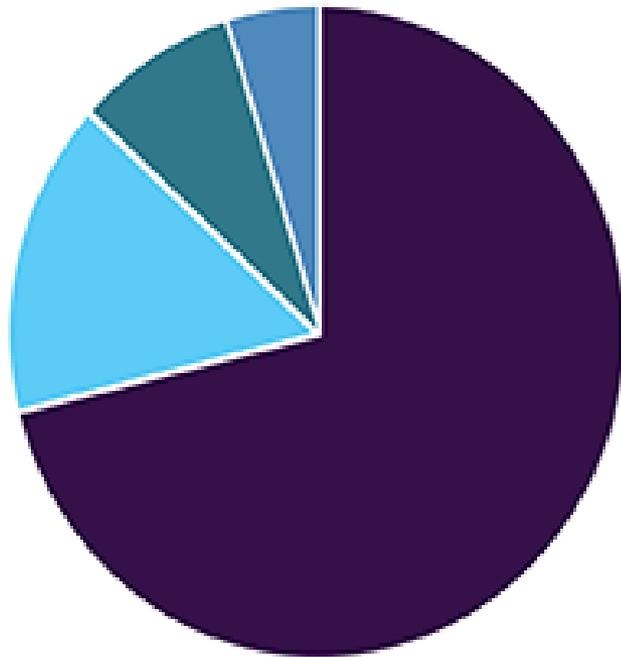
These hybrid materials provide sustainability, longevity, and cost savings in a wide array of applications such as car speakers, interiors, home furniture, and kitchen accessories.

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.

Building and construction is one of the most important applications for WPC and accounted for the largest market share in 2017. Rising demand for aesthetically appealing flooring and furniture solutions across the world is expected to aid segment growth over the forecast period.



Global Wood Plastic Composite Market Share, by Application, 2017 (%)



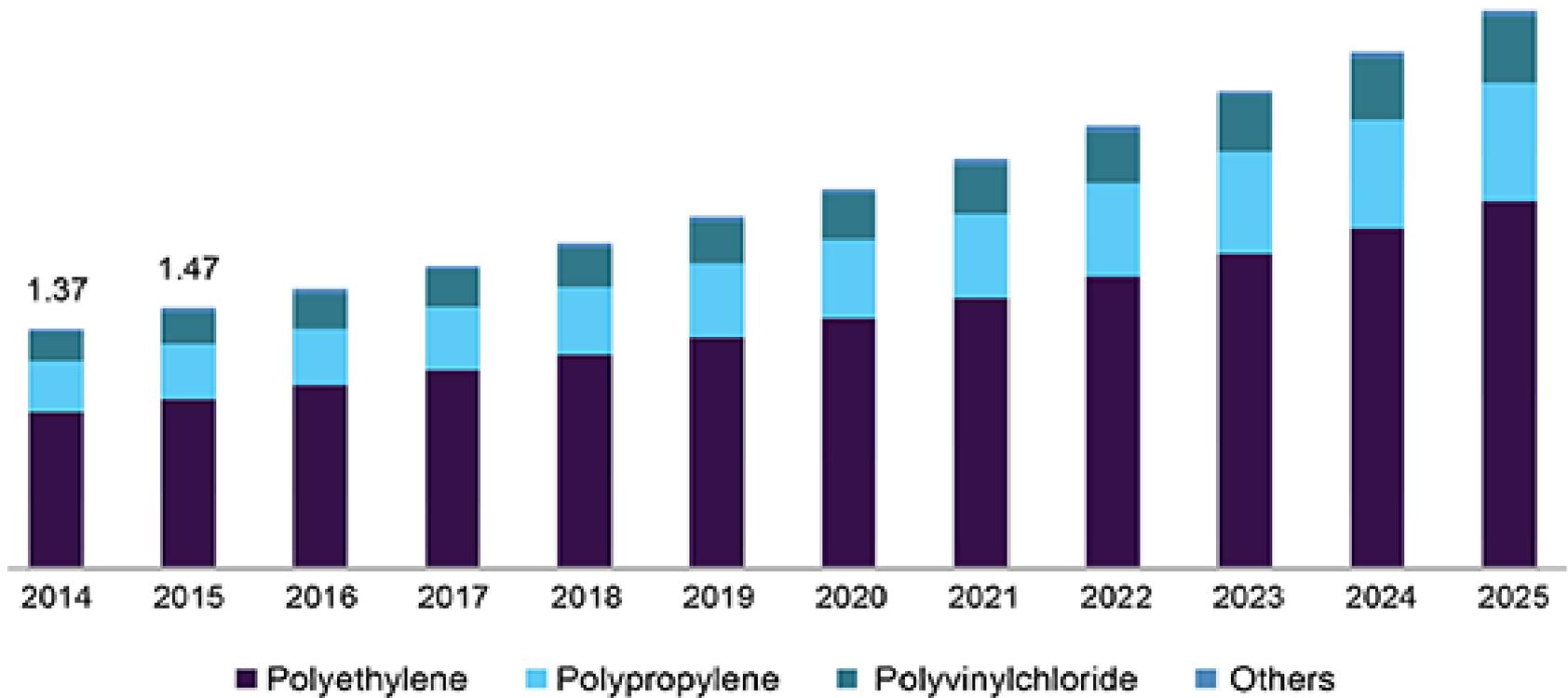
- Building & construction
- Automotive components
- Industrial & consumer goods
- Others

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.

Geographically, the wood plastic composite (WPC) market spans North America, Latin America, Europe, Asia-Pacific, Middle-East and Africa. North American market dominates wood plastic composite (WPC) market in the estimated period and is also expected to continue dominating further due to infrastructure projects and reconstruction. Europe and APAC market is also anticipated to grow at a higher CAGR in the near future owing to rise in construction activities and demand for construction supplies. Also, APAC regions exhibit potential growth for wood plastic composite market due to initiatives taken by government to encourage growth in manufacturing sectors.



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



Major Players in Wood Plastic Composites (WPC)

Market:

- **Advanced Environmental Recycling Technologies, Inc. (AERT)**
- **Axion International, Inc.**
- **AZEK Building Products (Timbertech)**
- **Beologic N.V.**
- **Fiberon, LLC**
- **Fkur Kunststoff GmbH**
- **Polymera, Inc.**
- **Timbertech Ltd.**
- **Universal Forest Products, Inc.**

Machinery Photographs



Cooling Conveyor Bridge



Double Screw Extruder



Transverse Cutter



Chiller

Project at a Glance

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existin g	Propose d	Total	Particulars	Existin g	Propos ed	Total
Land & Site Development Exp.	0.00	90.00	90.00	Capital	0.00	184.21	184.21
Buildings	0.00	303.75	303.75	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	155.00	155.00	Other Type Share 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	65.00	65.00	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	552.62	552.62
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	61.08	61.08				
TOTAL	0.00	736.83	736.83	TOTAL	0.00	736.83	736.83

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	Per Share		%		No.of Times	%
1-2	4.96	8.62	14.96	24.00	0.00	100.00	4.96	0.00	4.96	1.00	0.00
2-3	8.29	11.52	23.25	18.00	0.00	100.00	8.29	0.00	8.29	1.00	0.00
3-4	11.53	14.38	34.78	12.00	0.00	100.00	11.53	0.00	11.53	1.00	0.00
4-5	14.61	17.14	49.39	6.00	0.00	100.00	14.61	0.00	14.61	1.00	0.00
5-6	17.52	19.76	66.91	0.00	0.00	100.00	17.52	0.00	17.52	1.00	0.00

Project at a Glance

Year	D. S. C. R.			Debt / - 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		
Initial	(Number of times)			(Number of times)		%	%	%	%	%		%		
1-2	1.28	1.28		3.00	3.00			15.46%	6.58%	4.48%	858.61	42.1%	2.18	1.00
2-3	1.64	1.45		0.77	0.77	1.42		17.52%	9.89%	6.42%	985.87	41.4%	2.34	1.26
3-4	2.06	1.64	2.05	0.35	0.35	0.83		18.92%	12.23%	7.81%	1126.33	41.4%	2.35	1.60
4-5	2.55	1.84		0.12	0.12	0.51		19.87%	13.87%	8.80%	1266.80	41.4%	2.26	2.00
5-6	3.13	2.05		0.00	0.00	0.32		20.49%	15.01%	9.50%	1407.26	41.4%	2.11	3.12

Project at a Glance

BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	60.62%
Total BEP (% of Installed Capacity)	63.56%
IRR, PAYBACK and FACR	
Internal Rate of Return .. (In %age)	27.31%
Payback Period of the Project is (In Years)	2 Years 3 Months
Fixed Assets Coverage Ratio (No. of times)	8.185

Major Queries/Questions Answered in the Report?

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

- 5. What is the structure of the WPC Profile Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up WPC Profile Manufacturing Business?**
- 7. What are the operating costs for setting up WPC Profile Manufacturing plant ?**
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9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up WPC Profile Manufacturing plant ?

10. What are the requirements of raw material for setting up WPC Profile Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up WPC Profile Manufacturing Business?

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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 WPC Profile for Building Materials (Door, Window Frame and Shutters).” provides an insight into WPC Profile market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of WPC Profile project. The report assesses the market sizing and growth of the Indian WPC Profile 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 WPC Profile sector in India along with its business prospects. Through this report we have identified WPC Profile project as a lucrative investment avenue.

Tags

#WPC_Profile_Production, #Wood_Plastic_Composite_Profile_Production, #Wood_Plastic_Composite_(WPC)_Profile_Manufacturing_Process, #WPC_Profile, Wood Plastic Composite Production, WPC Profile Manufacturing, Wood Plastic Composite, WPC Industry, #WPC_Profile_Production_Business, WPC Profile Extrusion, Manufacture of WPC (Wood Plastic Composite) Profile, WPC Production Cost, Raw Materials for WPC Production, #Wood_Plastic_Composite_(WPC)_Manufacturing, Start a Plastic Wood Composite Unit, WPC Profile Making, WPC Building Material, Building Construction Material, Wood Plastic Composite Profile Building Material, Construction Profile, WPC Profiles Manufacture, Window and Door Profiles, #Window_and_Door_Profile_Extrusion, #WPC_Industrial_Door_Profile, Shutter Profiles, #WPC_Shutter_Profile_Making_Business, Project Report on WPC Profile Manufacturing Industry, Detailed Project Report on WPC Profile Manufacturing, #Project_Report_on_WPC_Profile_Production, Pre-Investment Feasibility Study on WPC Profile Manufacturing, Techno-Economic feasibility study on WPC Shutter Profile Making Business, Feasibility report on WPC Profile Manufacturing, Free Project Profile on WPC Profile Manufacturing, Project profile on WPC Profile Production, Download free project profile on WPC Profile Production

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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.



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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](#)



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- *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

Contact us

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<https://goo.gl/VstWkd>



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