Y-1517

Bioplastic Products Manufacturing Industry, Profitable Business Ideas on Biodegradable Products.

Manufacture of Eco-Friendly Products for Your Daily Life

Introduction

The non-biodegradable plastic products, which are commonly used in households, cannot be recycled for 400 years. Products like plastic carry bags, if disposed unscientifically, are hard to decompose and are a massive threat to soil cultivation.

Biodegradable substances include food scraps, cotton, wool, wood, human and animal waste, manufactured products based on natural materials (such as paper, and vegetable-oil based soaps). See also degradable and photodegradable. Biodegradable waste includes any organic matter in waste which can be broken down into carbon dioxide, water, methane or simple organic molecules by micro-organisms and other living things by composting, aerobic digestion, anaerobic digestion or similar processes. In waste management, it also includes some inorganic materials which can be decomposed by bacteria. Such materials include gypsum and its products such as plasterboard and other simple organic sulfates which can decompose to yield hydrogen supplied in anaerobic land-fill conditions.

Biodegradable waste can be found in municipal solid waste (sometimes called biodegradable municipal waste, or (BMW) as green waste, food waste, paper waste and biodegradable plastics. Other biodegradable wastes include human waste, manure, sewage, sewage sludge and slaughterhouse waste. In the absence of oxygen, much of this waste will decay to methane by anaerobic digestion.

Biodegradable substances are those that degrades or break down naturally. Materials like plants, animals, their waste, paper, fruits, flowers, vegetables fall under biodegradable substances, on the other hand, rubber, plastic, chemicals, paint plastic falls under the category of the non-biodegradable items.

Bio-Degradable Plates from Areca Nuts Tree Leaf, Barks and Bamboo

Areca nuts tree leaf plate is made of completely organic material, which is a fallen leaf collected from areca palm trees. Palm Leaf plates are made by Mother Nature from the naturally fallen Areca Palm tree leaves found in India. The leaf or Sheath is collected for the tableware. Areca Leaf plates are commonly known as Areca Plate, Areca Palm Leaf Plates, Palm Leaf Plates, Bio Plate, Natural plates, Disposable Plates, Eco friendly Bio-Degradable Dinner Plates, Kitchenware, Dinnerware. Currently no other alternative product in the world can match the unique properties of areca palm leaf plates present in nature. Areca leaf plates are made from the naturally shed leaf sheaths of Areca Nut Tree. The areca leaves are simply collected, pressure washed, scrubbed, sun dried and then with the application of heat and pressure formed into appropriate shaped plates. Plates once used can be used as a good fertilizer which enhances plants growth, a good source of organic manure. The countries that import areca leaf plates from India are shown in the pie chart below given.

Areca Leaf Plate exporters in India supply these plates which are in supreme demand owing to their low cost and solid construction on top of it environmental friendly nature. The products are made from high quality leak proof and defect free palm sheath. The global market for foodservice disposables is anticipated to see a steady growth between 2017 and 2021. By the end of 2021, the global foodservice disposables market is estimated to bring in US$ 27,187 Million revenue. Increasing number of restaurants are using disposable plates, cups, trays, bowls, etc. to serve various food items. Majority of the restaurants have started providing catering services, hence the use of foodservice disposables have also increased. Manufacturers are also providing customized foodservice disposables as per the requirement of restaurants.

Moreover, increasing number of customers have started using catering services provided by restaurants, especially during celebrations. Meanwhile, in the recent years, retail stores and hospitality industry have also started using foodservice disposables to provide various food products. A rise in the number of restaurants in developing countries and popularity of takeaway meals is fueling the growth of foodservice disposables in Asia Pacific region. Moreover, continuous urbanization, sedentary lifestyles and on-the-go food culture are expected to further propel the growth of the market in the short and medium terms. Easy availability of raw materials used in the manufacturing of biodegradable food service disposables is another factor which will provide the manufacturers with ease of production, thereby increasing the availability of these products in the market.

Biodegradable Diapers and Sanitary Napkins Production

Sanitary napkins are completely biodegradable and compostable. They are made from a plant-based material such as banana fibre which is extracted from the stems of banana trees. The pads degrade within 6 months of disposal. Women in rural areas use re-usable cloth as sanitary pads and while that is eco-friendly, it is not so hygienic. While plastic-based menstrual hygiene products are available in abundance, it is advisable to switch to a natural, safer product that does not have any harmful chemicals or synthetics fibers. Menstrual hygiene is a subject matter of deep concern in India where women, especially in rural areas face challenges in acquiring hygienic absorbents and develop health risks. Over the years, there has been a significant rise in the awareness levels regarding the benefits offered by biodegradable sanitary napkins. They are environmentally sustainable which can easily be disposed of in natural soil.

Moreover, it reduces the chances of infection and skin irritation and they are cost effective as well. On the other hand, non-compostable napkins use chemicals like dioxins, furans, chlorines and fragrances which causes health issues and cannot be recycled and takes hundreds of years to degrade Consumers are seeking for environmentally friendly diapering options such as diapers, developing innovative technologies such as nanotechnologies that can minimize the environmental impact of disposable baby diapers, and increasing birth rate in developing countries are the factors influencing the growth of the biodegradable baby diapers market in the near future.

The global biodegradable diapers market is expected to grow at a CAGR of 10.3% during 2019-2024. Rising environment concerns represents a key factor driving the demand of diapers. Unlike biodegradable diapers, traditional diapers do not degrade well in a landfill. Moreover, they can take around hundreds of years to decompose. The huge amount of untreated waste added to the landfills every year through plastic diapers can also pollute the ground water. Additionally, disposable diapers also consist of several chemicals that can have a negative impact on health. These include dioxins, sodium polyacrylate, tributyl-tin, volatile organic compounds, dyes, fragrances, etc.

Biodegradable Disposable Plastic Cutlery

Biodegradable plastics are plastics that can be decomposed by the action of living organisms, usually microbes, into water, carbon dioxide, and biomass. Biodegradable plastics are commonly produced with renewable raw materials, micro-organisms, petrochemicals, or combinations of all three.

Plastic cutlery is made from a type of plastic known as polystyrene1. Polystyrene or expanded polystyrene is more commonly referred to as Styrofoam. India is slowly becoming a country where people are turning health conscious. Thankfully, biodegradable cutlery has emerged as a better alternative to plastics across the globe and Indians have been early adopters of biodegradable products.

The biodegradable plastic packaging market was valued at USD 3.97 billion in 2018, and is expected to reach a market value of USD 10.3 billion by 2024, registering a CAGR of 17.04% during the forecast period of 2019 - 2024. Increasing awareness regarding harmful effects associated with non-biodegradable plastic wastes is a key factor likely to drive the market.

The increasing environmental concerns regarding plastic usage (as plastics contain toxic pollutants that harm plants, animals, and people) are driving the use of biodegradable plastic alternatives. Floating plastic waste that survives thousands of years in water can serve as a transportation device for invasive species that disrupt habitats. This aforementioned factor is contributing to the growth of the market.

Biodegradable Plastic Pellets

Biodegradable plastics are made from all-natural plant materials. These can include corn oil, orange peels, starch, and plants. Traditional plastic is made with chemical fillers that can be harmful to the environment when released when the plastic is melted down.

The biodegradable plastics market is expected to reach USD 6.12 billion by 2023, at a CAGR of 15.1% Increasing consumer preference for the environmentally sustainable plastic products and growing regulations and prohibitions against the use of plastic bags and other plastic items are propelling the global biodegradable plastics market. Even though the factors such as growing consumer preference toward eco-friendly plastic products as well as increasing government emphasis on the use of biodegradable plastics are driving the global biodegradable plastics market, the higher cost of biodegradable plastics and shortcomings of biodegradable plastics are anticipated to dampen the market growth. The growing use of biodegradable plastics in the food and beverages industry, as well as rapid growth of packaging industry, is expected to develop new market expansion opportunities for the global biodegradable plastics market in the forthcoming years.

Biodegradable plastic is plastic that decomposes naturally in the environment by the action of microorganisms in the environment that metabolize and break down the structure of biodegradable plastic. Which is relatively less harmful to the environment than the traditional plastics. Non-decomposable plastics are a global environmental problem. Governments around the world are dealing with this problem by banning single-use plastics and promoting biodegradable plastics. Moreover, consumers are willing to pay more for biodegradable plastics owing to their eco-friendly nature. Moreover increasing use of biodegradable plastics in packaging and agriculture sectors is drive the global biodegradable plastics market.

Polyester Fiber from Corn/Starch

PLA (Polylactic acid) comes from fermented plant starch (mostly from corn), and is often referred to as corn starch plastic. It is becoming popular very quickly, because corn-based plastic is a more environmentally-friendly alternative to traditional plastics, which are petroleum-based. Polyester fibers are manufactured from recycled or virgin PET.

These fibers can be colored by the method of pigmentation or dope dyeing. Polyester fibers can be classified as staple fibers and bulk continuous fibers (BCF) depending on their length. These fibers can also be manufactured in various geometries such as square, rectangular, triangular, hexagonal and circular depending upon the area of application.

Polyester is the most used and most preferred fibre in the textiles industry due to its better physical properties, lower price, versatility, and recyclability, which offer a completely unique set of benefits unmatched by any other natural or synthetic fibers.

Polyester fibers are extremely strong, resistant to most chemicals and shrinking, stretching, abrasion, wrinkle and mildew resistant. Polyester fibers are hydrophobic in nature and dry quickly. Therefore, they can be used to provide insulation in the form of hollow fibers. Polyester fibers withstand wear and tear longer than cotton and retain their shapes in extreme climatic conditions and are thus preferred for manufacturing outdoor clothing.

The soluble corn fibre market can be segmented on the basis of its application as food & beverages, nutraceuticals and clinical nutrition, animal nutrition and others. It can also be classified on the basis of end-user usage pattern of soluble corn fibre into breakfast, lunch, dinner and on-the-go eating. One of the major advantages of soluble corn fibre is, it can be used as low-calorie fillings in a range of food items, specially baked goods and confectionery.

In addition, there is a growing demand for soluble corn fibers in frozen entrees such as pasta and tortillas in packaged food industry. Regionally, the market can be divided into Asia-Pacific, North America (the U.S., Canada and Mexico), Western Europe, Eastern Europe, Middle East and North Africa, and Rest of the World (Latin America and South Africa).

With the rise in disposable income and a shift towards leading a healthy life, the industry has felt an augmented demand for soluble corn fibers. In addition, advancement in food technologies to produce label-friendly products happens to be a major supply side driver of this market. One of the restraints of the market could be the process stability of corn-soluble ingredients as these products are highly application specific.

Production of Bio-plastic Film

Using Biodegradable Resin, PLA (Polylactic Acid)

PLA Polylactic Acid, is a biodegradable thermoplastic and aliphatic polyester, derived from renewable and organic resources such as corn starch and sugarcane. Our manufacturing facilities can provide simple cut-to-size or complex CNC manufacturing, and crating for multiwall and twin wall sheet.

Polylactic acid or polylactide (PLA) is a thermoplastic aliphatic polyester derived from renewable resources. PLA had the second highest consumption volume of any bioplastic of the world,

Although Bio plastic is a biodegradable material that come from renewable sources and can be used to reduce the problem of plastic waste that is suffocating the planet and polluting the environment. These are 100% degradable, equally resistant and versatile, already used in agriculture, textile industry, medicine and, over all, in the container and packaging market, and biopolymers are already becoming popular in cities throughout Europe and the United States.

With increasing concerns over the use of plastics, sustainable alternatives to plastics are increasingly in demand. Biopolymers in general and bio plastics in particular, present one such sustainable alternative. The global biodegradable plastics market is expected to reach 16.8 billion by 2022 with CAGR 8.4% between 2016-2022. Rising consumer awareness about global warming and government legislation such as banned on plastic bags will increase the demand for biodegradable plastics across the globe. Plastics that decompose to carbon dioxide and water under the actions of microorganisms is known as biodegradable plastics. Biodegradable plastics are produced by fermentation of sugar or canola oil to produce polylactic acid (PLA) or polyhydroxyalkanoates (PHA) which in turn converted into biodegradable plastics. A sustainable alternative to traditional plastics, bio plastics are plastics that are fully or partially bio based, and biodegradable or compostable. In other words, they are plastics that are made from renewable resources such as corn, tapioca, potatoes, sugar and algae and breaks down faster than traditional plastics, which are typically made from petroleum, and other fossil resources such as natural gas. Bio plastics have numerous applications like packaging, bottles, utensils, furniture etc.

Bioplastic Carry Bags and Garbage Bags

The process of extrusion then transformed these plastic beads into plastic bags. Trash bags are made from low-density polyethylene (LDPE), which is purported to be flexible, soft, airtight and waterproof. At times, to provide strength to the bags, high-density polyethylene (HDPE) is also used.

The biodegradable plastic packaging market was valued at USD 3.97 billion in 2018, and is expected to reach a market value of USD 10.3 billion by 2024, registering a CAGR of 17.04%.

The stringent regulations by various governments and federal agencies with an objective to reduce plastic waste and promote biodegradable plastics usage in packaging are boosting the demand of this market. The regulations related to green packaging is increasing. Various companies are required to adopt biodegradable packaging to comply with the standards, which in turn, is propelling the growth of this market.

High costs (compared to normal plastic) are restraining the growth of the market, as biodegradable plastic is made from plants' starch and its decomposition needs specific conditions, like temperature, bacteria, humidity, etc. The increasing environmental concerns regarding plastic usage (as plastics contain toxic pollutants that harm plants, animals, and people) are driving the use of biodegradable plastic alternatives. Floating plastic waste that survives thousands of years in water can serve as a transportation device for invasive species that disrupt habitats. This aforementioned factor is contributing to the growth of the market. Eco-friendly initiatives by corporates and abundant availability of raw materials for manufacturing bio plastics are prominent factors driving growth in Asia Pacific bio plastics market

. Europe and North America are expected to dominate the overall market of biodegradable packaging. North America is expected to be the largest consumer of the biodegradable packaging market.

The developed regions are expected to dominate the overall biodegradable packaging market owing to the presence of mature markets that consist of highly environmental conscious consumers. In addition, the presence of high-spending population is also expected to increase the overall demand for biodegradable packaging in the developed regions. The presence of large populations in Asia Pacific is expected to boost the biodegradable packaging market.

Tags

#Biodegradable_Plates_Production, #Disposable_Leaf_Plates, #Areca_Leaf_Plate_Presentations, #Arecanut_Leaf_Plate_Manufacturing, #Biodegradable_Plates_Production_from_Areca_Nuts_Tree_Leaf, #Areca_leaf_plates_project_report, #Biodegradable_Diapers_and_Sanitary_Napkins_Production, #Project_Report_on_Sanitary_Napkin_Amp_Baby_Diaper, #Project_Report_on_Sanitary_Napkins, #Sanitary_Napkin_Manufacturing_Project, #Biodegradable_Diapers_and_Sanitary_Napkins_Production, #Indian_Sanitary_Napkin_Market, #Eco_friendly_Sanitary_Napkins_in_India, #Project_Report_on_Biodegradable_Cups_Plates_Plant, #How_to_start_a_biodegradable_plastic_manufacturing_company? New Process for Biodegradable Plastics Production, Plastic Industries Project Reports, Book on Production Biodegradable Plastics, Plastic Industries Project Reports, Biodegradable Plastic Pellets Manufacturing Industry, Project Reports & Profiles,

Production of Bioplastic Film using Biodegradable, Bio plastics and biodegradable plastics, Polylactic Acid Manufacturing Plant, Book on Production Biodegradable Plastics, Production of Polylactic Acid Feasibility Report, (PDF) Poly(lactic acid) - Mass Production, Bioplastic Carry Bags And Garbage Bags Production, Biodegradable Plastic Bag Manufacturing Unit, Bioplastic Carry Bags and Garbage Bags Production, Pioneering Bioplastic Companies in India, Biodegradable Plastic Bag, biodegradable plastic bags business plan, Project Report On Biodegradable Carry Bags, Paper Versus Plastic Bags, How to Start Bioplastic Carry Bags and Garbage Bags Processing Industry in India, (Polylactic Acid) Processing Industry in India, Most Profitable (Polylactic Acid)Processing Business Ideas, Production of Bio-plastic Film using Biodegradable Resin, PLA Processing & Polyester Fiber from Corn/Starch Based Profitable Projects, Biodegradable Disposable Plastic Cutlery Processing Projects, Small Scale Biodegradable Plastic Pellets Processing Projects, Starting a Biodegradable Diapers and Sanitary Napkins Production Processing Business, How to Start a Biodegradable Diapers and Sanitary Napkins Production Business,

Production Of Polyester Fiber From Corn/starch, Polylactic Acid Production, Production of Polyester Fiber from Corn/Starch, Book on Modern Biodegradable Plastics Polymers Bio Starch, Surfaces and Interfaces in Natural Fibre Reinforced, Production Of Bioplastic Film, Book on Production Biodegradable Plastics Bio plastics, Bio-Degradable Plates from Areca Nuts Tree Leaf, Barks and Bamboo Based Small Scale Industries Projects, new small scale ideas in Bio-Degradable Plates from Areca Nuts Tree Leaf, Barks and Bamboo processing industry,

For more Projects and further details, visit at:

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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?

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
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NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595Fax: +91-11-23841561

Website : www.entrepreneurindia.co , www.niir.org

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NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Website : www.entrepreneurindia.co , www.niir.org

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