List of Business Opportunities in Green Power and Renewable Energy Sector.

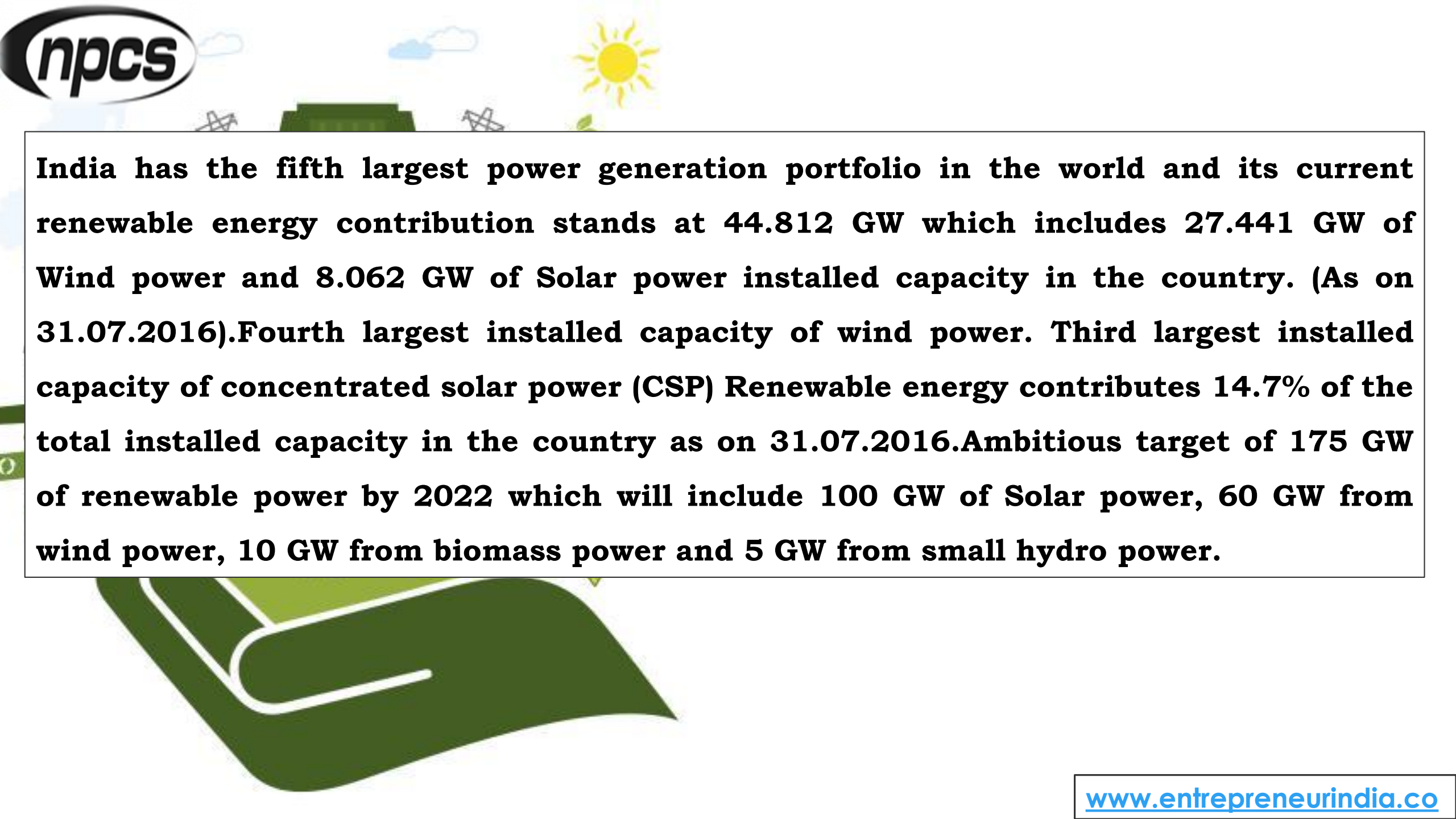
Renewable Energy Sector, Green Power, Solar Energy, Biofuel, Hydroelectric, Wind, Geothermal, Biomass, Non-conventional Energy, New and Renewable Energy Projects

Introduction

The Indian renewable energy sector is the second most attractive renewable energy market in the world.1 The country ranks fourth in the world in terms of total installed wind power capacity.2 India added 11.788 GW of power generation capacity from renewable sources between January – November 2017. As India looks to meet its energy demand on its own, which is expected to reach 15,820 TWh by 2040, renewable energy is set to play an important role.

Green power is a subset of renewable energy and represents those renewable energy resources and technologies that provide the highest environmental benefit. EPA defines green power as electricity produced from solar, wind, geothermal, biogas, eligible biomass, and low-impact small hydroelectric sources.

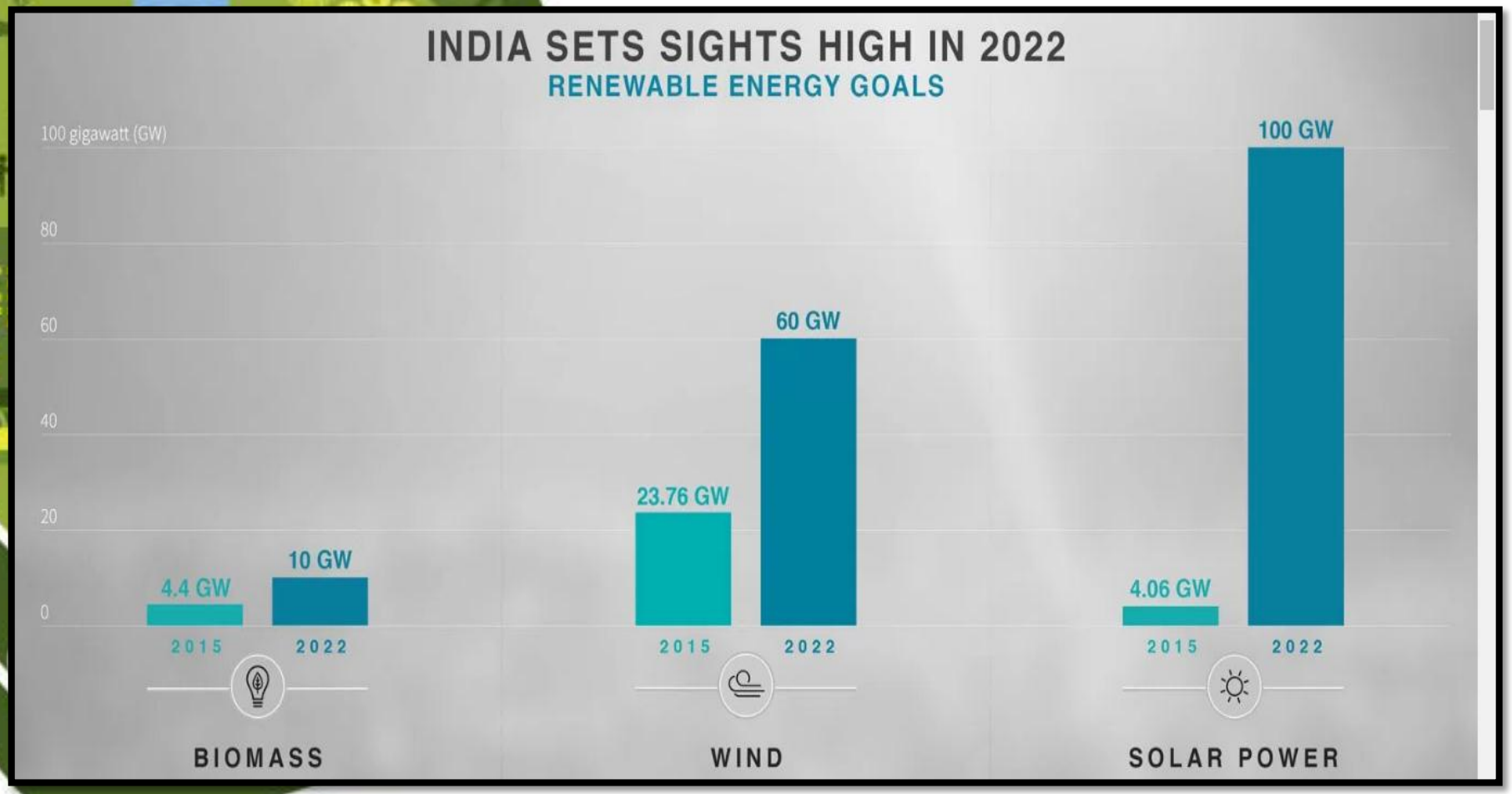
With a potential capacity of 363 gigawatts (GW) and with policies focused on the renewable energy sector, Northern India is expected to become the hub for renewable energy in India.3



India has the fifth largest power generation portfolio in the world and its current renewable energy contribution stands at 44.812 GW which includes 27.441 GW of Wind power and 8.062 GW of Solar power installed capacity in the country. (As on 31.07.2016).Fourth largest installed capacity of wind power. Third largest installed capacity of concentrated solar power (CSP) Renewable energy contributes 14.7% of the total installed capacity in the country as on 31.07.2016.Ambitious target of 175 GW of renewable power by 2022 which will include 100 GW of Solar power, 60 GW from wind power, 10 GW from biomass power and 5 GW from small hydro power.

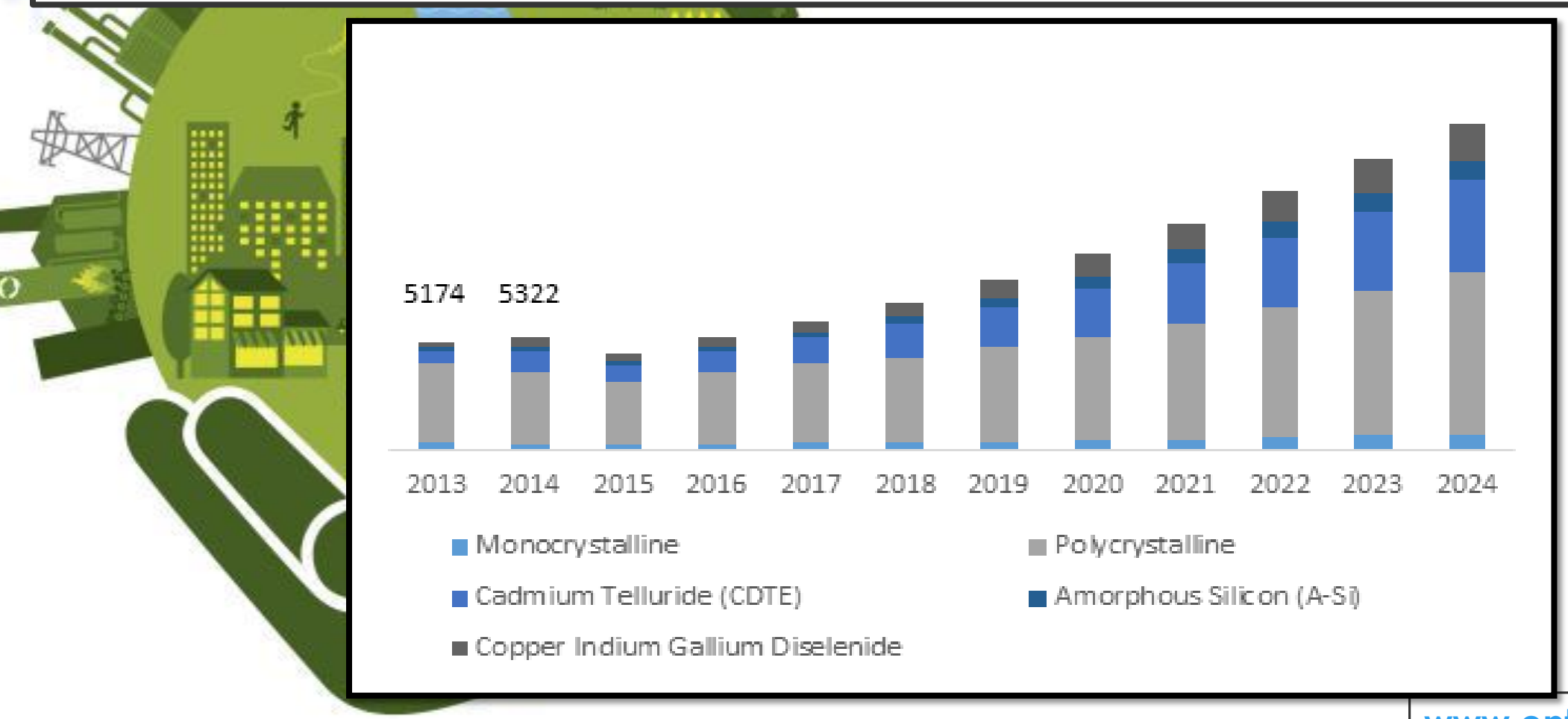
With increasing focus of the government on development of renewable energy sector, solar power products market in India is on the verge of expansion. Target for solar power generation capacity in the country has been set at 100 GW by 2022 and this is anticipated to increase development of solar power products in India. Government provides incentives and subsidies for solar power products such as solar pumps and solar lanterns, thereby boosting their adoption across the country. Rising development of solar power generation projects is expected to aid in addressing the growing demand for electricity and in turn boost growth in the solar power products market through 2022.

Rapid Growth in India Includes Renewable Energy Sector



The market for solar power products in India is forecast to grow at a CAGR of over 10% through 2022, on account of growing demand for power and increasing focus on reduction of greenhouse gases emissions from the power sector. Development of power transmission and distribution network is projected to increase adoption of grid connected rooftop solar plants in the country through 2022.

Solar Cells Market size was above USD 35 billion in 2015 with forecast to grow over 12.0% from 2016 to 2024.



Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Required Project

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Here are few Projects for Startup:

➢ CO-GENERATION POWER PLANT BASED ON BAGASSE

Co-generation plant based on Bagasse is the need of the hour in the perspective of the power generation required and its demand is increasing considerably. There stands an imperative need for the setting up of power plant based on bagasse, which is a waste product from sugar industries. Read more

➢ SOLAR POWER PLANT

Solar thermal systems for generating electricity use tracking mirrors to reflect and concentrate sunlight on to a receiver, where, it is converted to high temperature thermal energy. The high-temperature heat in the receiver is then used to drive a heat engine and electric generator to produce electricity. Read more

➢ HYDRO BASED POWER PLANT

Hydropower is a renewable energy resource that utilizes Earth's water cycle to generate electricity. The movement of water flow downstream in lakes and rivers creates kinetic energy that id converted into electricity. The energy generated by running water has been utilized for many decades. Read more

➢ BAGASSE BASED COGENERATION POWER PLANT

Energy demand is fast increasing with rapid industrialization and urbanization in India. In a developing economy like India, generally energy demand is increasing at much faster pace than supply. Increasing demand also leads to increase in cost of energy, hence high power tariffs for consumers. Read more

➢ BIOGAS POWER PLANT FROM COW DUNG

Biogas plants have the ability to accept a wide variety of organic residues as primary fuel input. This includes Cow dung, agricultural residue, effluent discharge, food residue etc. Most agricultural / food production processes have significant amount of organic residues output as by-product. Read more

➢ BIOGAS PRODUCTION

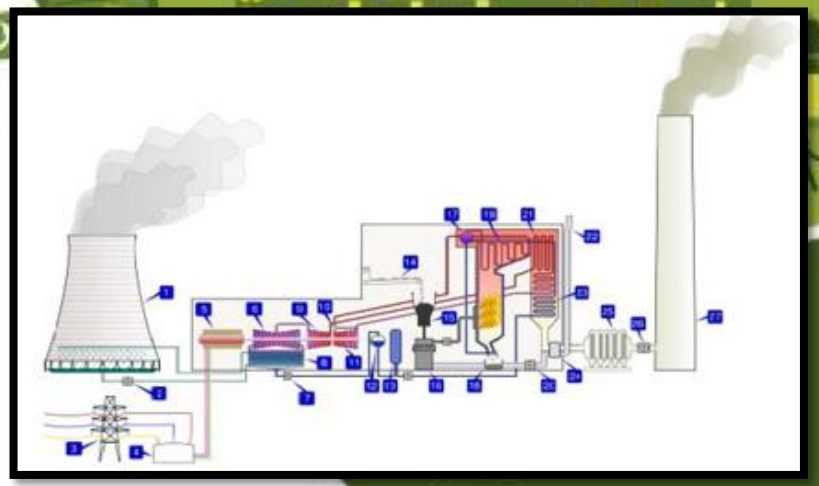
An effective biogas programme leads to efficient use of cow dung for gas recovery and partial supplement to plant nutrient requirement. Biogas programme leads to improvement in rural living including rural sanitation. Biogas fermentation a process occurring widely in nature can be defined as a biological process, Read more

➢ BIOMASS GASIFICATION POWER PLANT

Bio-gas power plant is one of the sources of non-conventional energy. The biomass fuels are solid carbonaceous materials derived from living plants and animals. There is availability of waste material in our country, producer gas can be easily converted to energy. It can be used for providing electricity in nearer or furthest area. Read more

➢ CAPTIVE POWER PLANT

Robust power generation and an effective delivery model determine the bullish economic growth of a country. A weak power infrastructure impedes the growth potential and pulls back the growth initiates. Captive power plants are essentially non-utility power plants. Read more



➢ POWER GENERATION FROM GARBAGE

Managing waste is the collection and ultimate disposal of the waste without causing environmental damage. Power generation from waste is one of unique thinking of country growth. It is prime need in all over our countries as well as mostly under developed country and developing countries. Read more

➢ BIOMASS POWER GENERATION PLANT

Biomass is biological material derived from living, or recently living organisms. In the context of biomass for energy this is often used to mean plant based material, but biomass can equally apply to both animal and vegetable derived materials. Biomass is a plant matter used to generate electricity or produce heat, usually by direct incineration. Read more

➢ WIND MILL

Non-conventional and renewable sources of energy have come to assume tremendous significance both as alternative or substitute and also as viable supplement to conventional sources of energy. The need for development of non-conventional sources has been strengthened in view of the increasing population, Read more

- **SOLAR PANEL ASSEMBLING & SOLAR POWER INVERTER ON GRID, OFF GRID WITH SOLAR PUMP CONTROLLER**

A solar cell, sometimes called a photovoltaic cell, is a device that converts light energy into electrical energy. Solar panels generate free power from the sun by converting sunlight to electricity with no moving parts, zero emissions, and no maintenance. Read more

➢ SOLAR CELLS

Solar cells are the devices where solar energy is directly converted into electricity. Solar cells are made of naturally available semiconductors such as silicon and germanium. The resistivity of these materials is between those of conductors and insulators. Therefore they are called semiconductors. Read more

➢ COMPRESSED BIOGAS

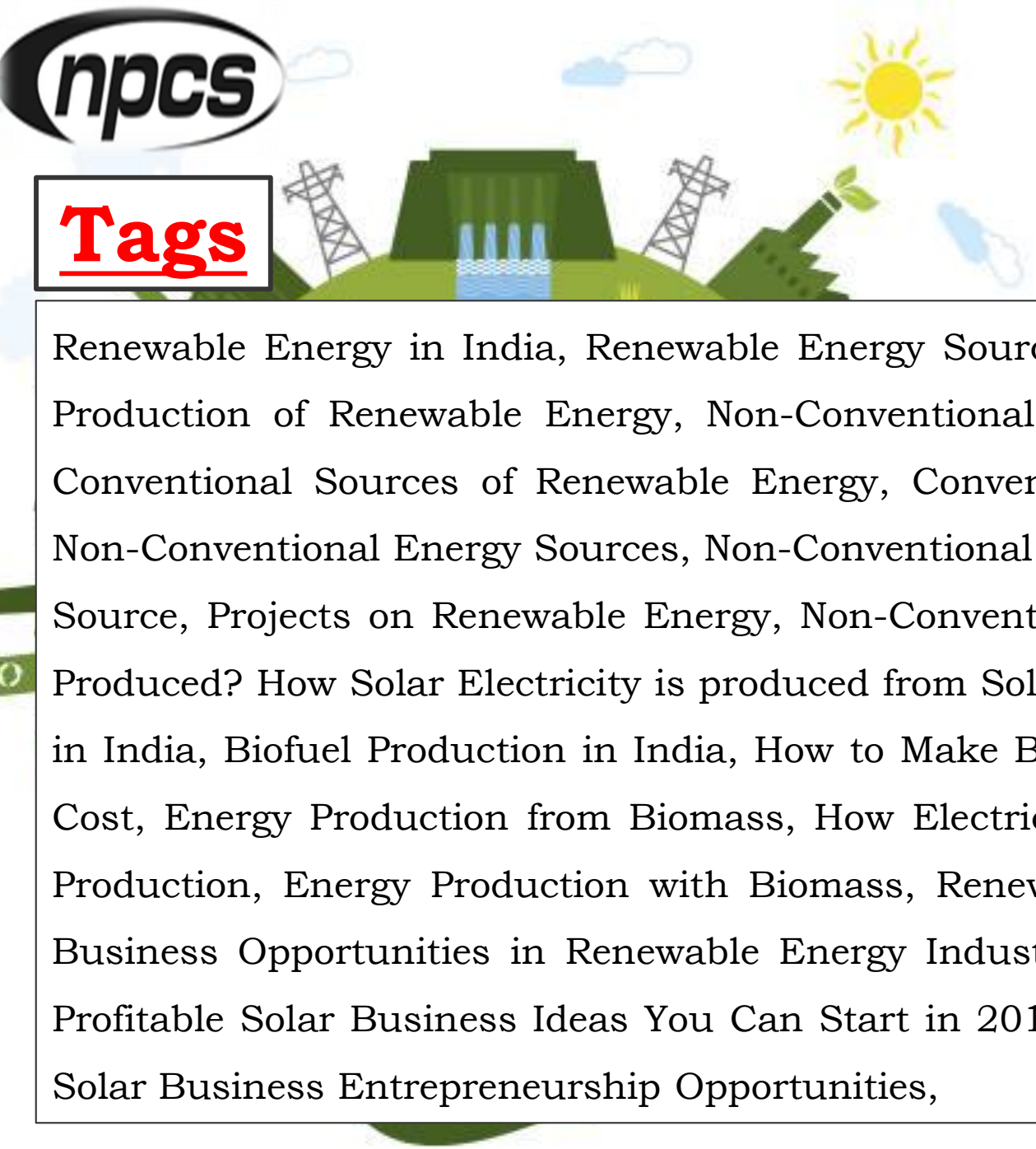
The term biogases refer to gases created by the anaerobic fermentation of biological materials. Their main constituents are methane and carbon dioxide. Considerable quantities of biogases are produced by anaerobic fermentation of agricultural and organic waste (biogas), Read more

➢ SOLAR PHOTOVOLTAIC SYSTEM

Solar cell is made from two words, solar & cell. The solar cell is the device, which converts the light energy into the electric energy. Solar cell is widely used as small power sources & is used in the electronic watches, calculators & other many electronic goods. Read more

➢ ETHANOL AS BIOFUEL

Ethanol has been known as fuel for many decades. Production of ethanol in the world is increasing very rapidly and has grown. There is a vast scope to use it as Automobile fuel. There is proposal come from the government agencies as well as from the public agencies also. Read more



Tags

Renewable Energy in India, Renewable Energy Sources, Renewable Energy, Renewable Energy Production, Production of Renewable Energy, Non-Conventional Sources of Energy in India, Conventional and Non-Conventional Sources of Renewable Energy, Conventional and Nonconventional Sources, Renewable and Non-Conventional Energy Sources, Non-Conventional Energy Resources, Project Report on Non-Conventional Source, Projects on Renewable Energy, Non-Conventional Energy, Sources of Energy, How is Solar Energy Produced? How Solar Electricity is produced from Solar Energy, Solar Energy Production, Biofuel Production in India, Biofuel Production in India, How to Make Biofuels, Biofuel Production Process, Biofuel Production Cost, Energy Production from Biomass, How Electricity is generated from Biomass, Biomass-Based Power Production, Energy Production with Biomass, Renewable Energy Business Ideas, Energy Business Ideas, Business Opportunities in Renewable Energy Industry, Solar Energy Small Business Opportunities, Most Profitable Solar Business Ideas You Can Start in 2018, Renewable Energy Business Opportunities in India, Solar Business Entrepreneurship Opportunities,

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For more Projects and further details, visit at:

https://goo.gl/383fZj
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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
- The report provides vital information on the product like it's characteristics and segmentation
- The report helps you market and place the product correctly by identifying the target customer group of the product

- **The 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

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

Download Complete List of Project Reports:

- **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.

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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- *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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