

# GREEN REVOLUTION

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The image features a central graphic with a circular arrow loop containing a plant growing from coins, with a Euro symbol. Surrounding this are various green icons: a sun with a plug, a wind turbine, a rain cloud, birds, a city skyline, a person, a bicycle, trees, a house, a leaf, and a power plug. The text 'Green Finance' is centered below the main graphic.

# Green Finance

# What is Green Finance ?

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Green finance involves financing projects and initiatives that have positive environmental impacts such as reducing greenhouse gas emissions and promoting renewable energy.



# Another Name

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United Nations Environment Programme (UNEP) defines three concepts that are different but often used as synonyms, namely:

- ❖ Climate Finance,
- ❖ Green Finance and
- ❖ Sustainable finance.



First, climate finance is a subset of environmental finance, it mainly refers to funds which are addressing climate change adaptation and mitigation.

## WHY ?

Green finance delivers economic and environmental advantages to everybody. It broadens access to environmentally-friendly goods and services for individuals and enterprises, equalizing the transition to a low-carbon society, resulting in more socially inclusive growth





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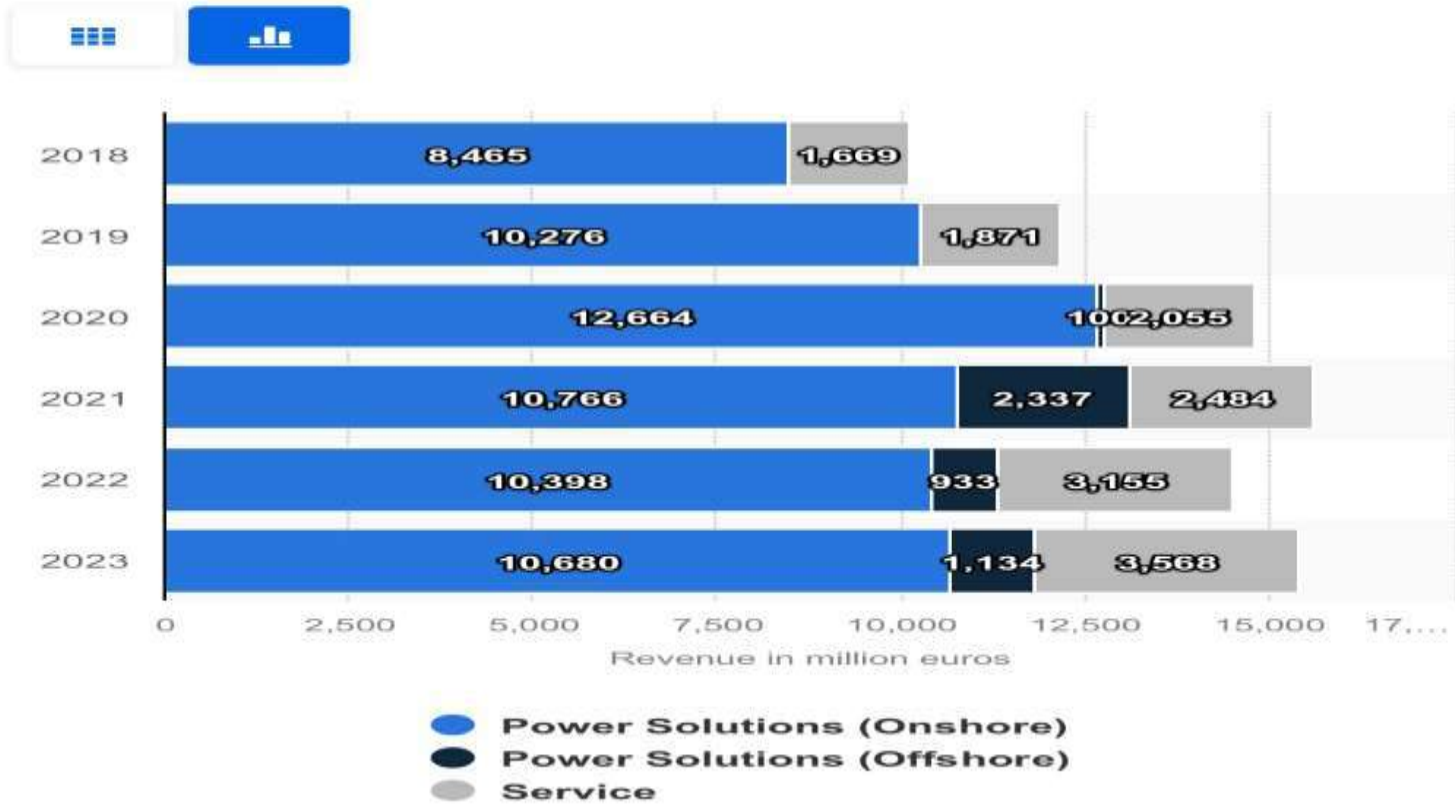
### Example: Dates

The market size of organic food was worth about 22 billion Indian rupees in fiscal year 2021. The size of the organic food market is likely to increase to about 64 billion rupees by the financial year 2025.

Source: <https://www.google.com/search?q=organic+food+market+business+in+india&sca>

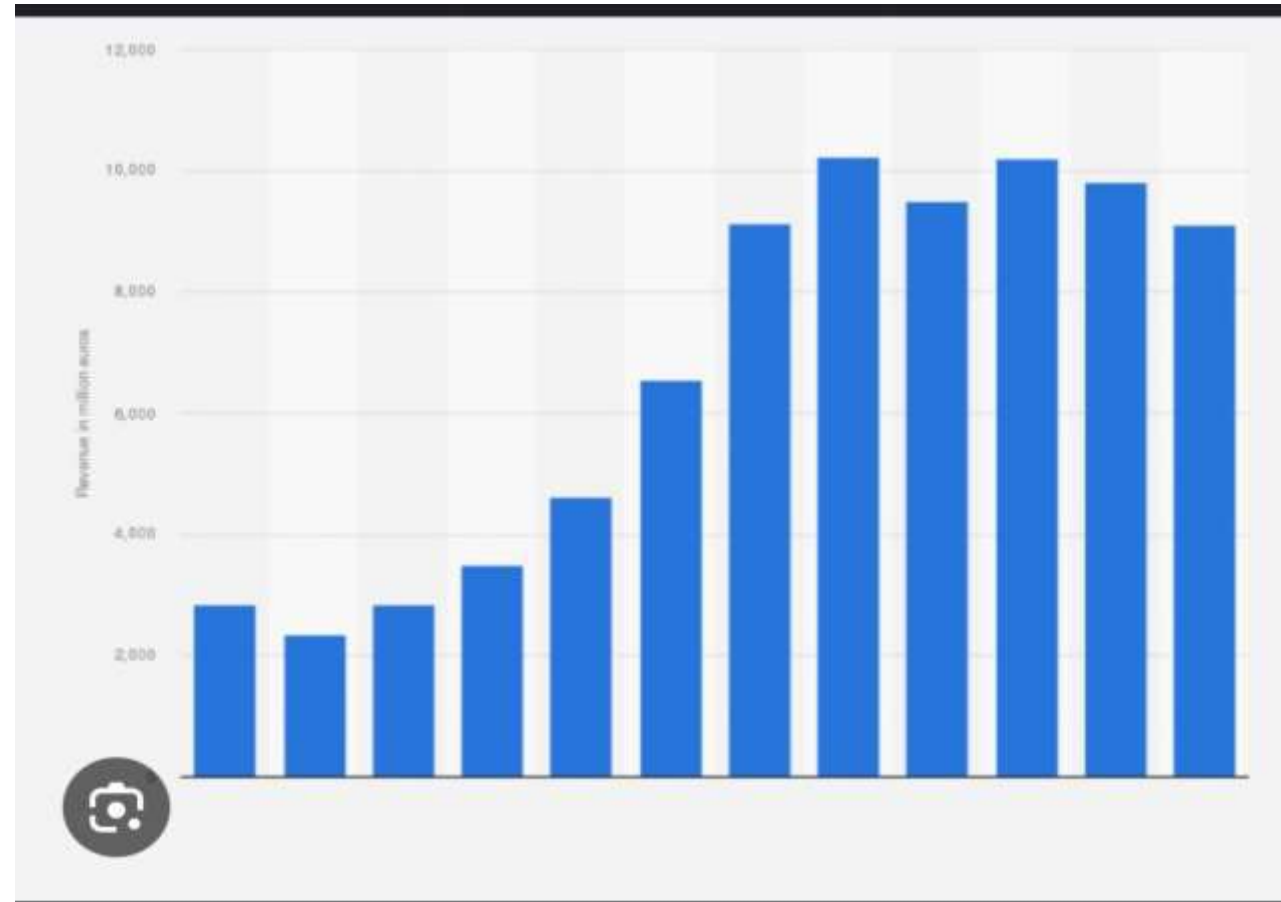
## Revenue of Vestas Wind Systems from financial year 2018 to 2023, by segment

(in million euros)





In the financial year 2023, Siemens Gamesa generated around 9.1 billion euros in revenue, a decrease compared to the previous year wherein the revenue was around 9.8 billion euros. Siemens Gamesa is one of the largest wind turbine manufacturers worldwide.



# NEED

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With sustainable development being the need of the hour, various avenues and projects have come up in the recent past to ensure a decrease in harmful impacts on the environment while promoting the positive ones. With numerous initiatives coming to life, the green industry has been growing substantially. And for the growth of any industry to take place, financial aid is a necessity.

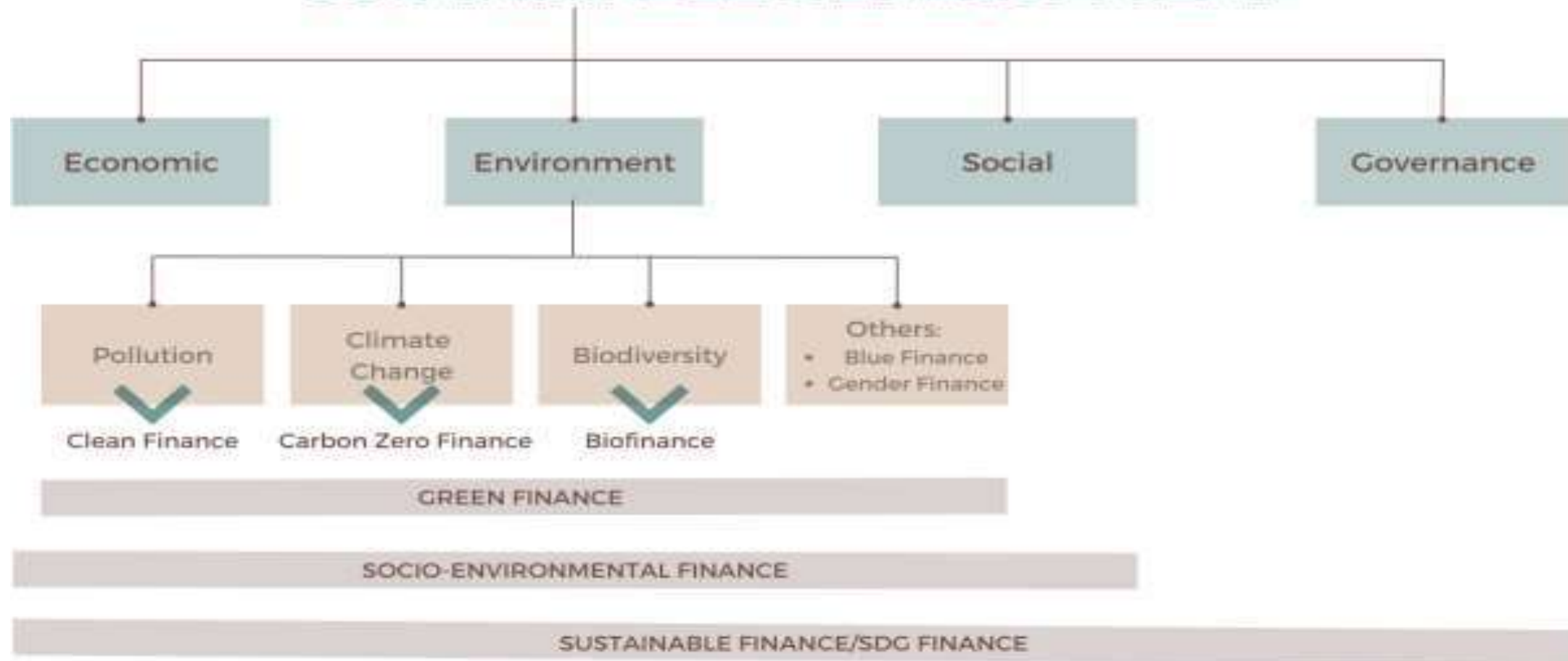
Source: <https://www.investindia.gov.in/foreign-direct-investment>

# GREEN REVOLUTION

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- ❖ Funds are necessary to their growth and Sustainable development but they need a Custom solutions.
- ❖ This is where green finance starts its Existence.

# SUSTAINABLE DEVELOPMENT



# SUSTAINABLE DEVELOPMENT

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Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

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Global fresh water demand will outstrip supply by 40% by 2030, say Experts. The world is facing an imminent water crisis, with demand Expected to outstrip the supply of fresh water by 40% by the end of this Decade, Experts have said on the eve of a crucial UN water summit.



## WHY ?

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## Need for it now?

From an environmental perspective, green finance plays a pivotal role in advancing sustainable development and mitigating climate change. By redirecting capital towards green projects, it accelerates the transition to renewable energy sources, such as solar and wind power, reducing reliance on fossil fuels



## BENEFITS

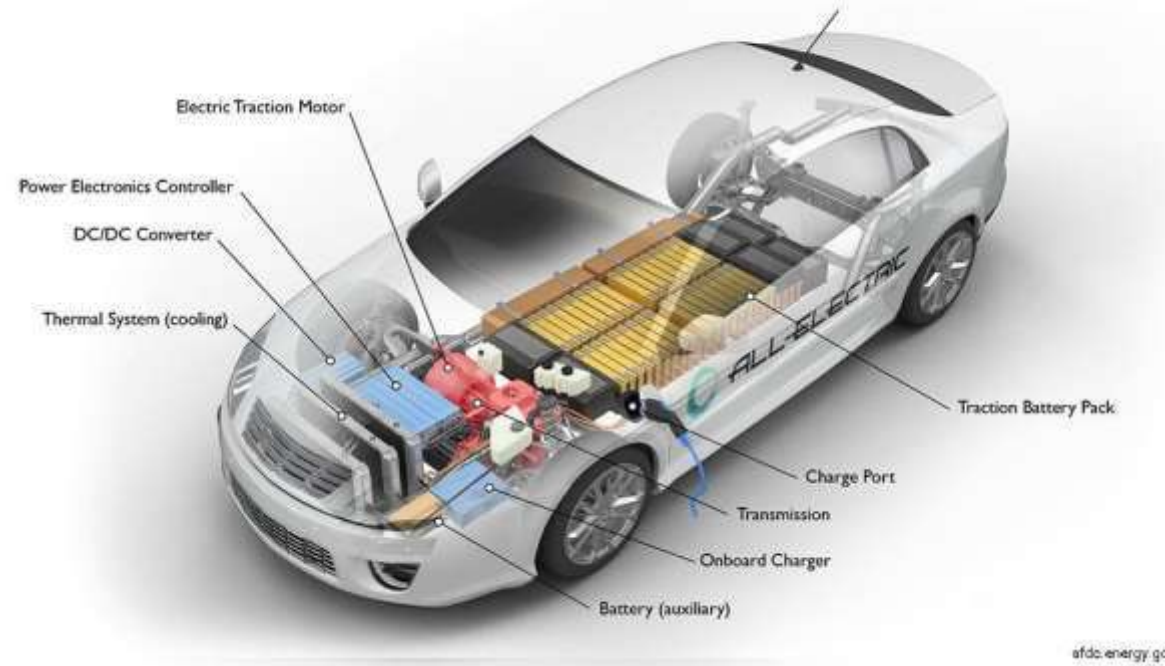
Sustainable finance is an evolution of green finance, as it takes into consideration environmental, social and governance (ESG) issues and risks, with the aim of increasing long-term investments in sustainable economic activities and projects



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- ❖ CLEAN TRANSPORTATION
  - ❖ SOLAR POWER
  - ❖ WIND
  - ❖ BIO GAS
  - ❖ LARGE SCALE RE CYCLING PROJECTS
  - ❖ GARBAGE PICTURE -SOLID WASTE MANAGEMENT
  - ❖ CONCEPT
  - ❖ PUBLIC SECTOR
  - ❖ PRIVATE SECTOR
  - ❖ NON -PROFIT SECTOR

# ELECTRIC VEHICLE

All-Electric Vehicle



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The India electric vehicle market size is projected to grow from USD 3.21 billion in 2022 to USD 113.99 billion in 2029, growing at a compound annual growth rate of 66.52 per cent, according to a report by Fortune Business Insights.

# SOLAR UNIT

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In the last five years, the country's solar installed capacity has experienced a monumental transformation, increasing from 21,651 MW to 70,096 MW in 2023. With ambitious targets and policies like the Production Linked Incentive (PLI), India is propelling itself to achieve 500 GW of renewable energy capacity by 2030.<sup>6</sup>

# BIO GAS

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India's biogas market size was valued at USD 1.40 billion in 2021. The market is expected to grow from USD 1.47 billion in 2022 to USD 2.25 billion in 2029 at a CAGR of 6.3% in the 2022–2029 period



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According to the 'Landscape of Green Finance in India 2022' report, in India, the public sector's contribution has been instrumental in increasing green finance flow, while the private sector flows have also been increased by 139%. The report stipulates that further growth would be needed to attain a sustainable future

# FDI's Inflow

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In the renewable energy sector, India has received \$6.1 billion in FDI equity investment from April 2020 to September 2023.

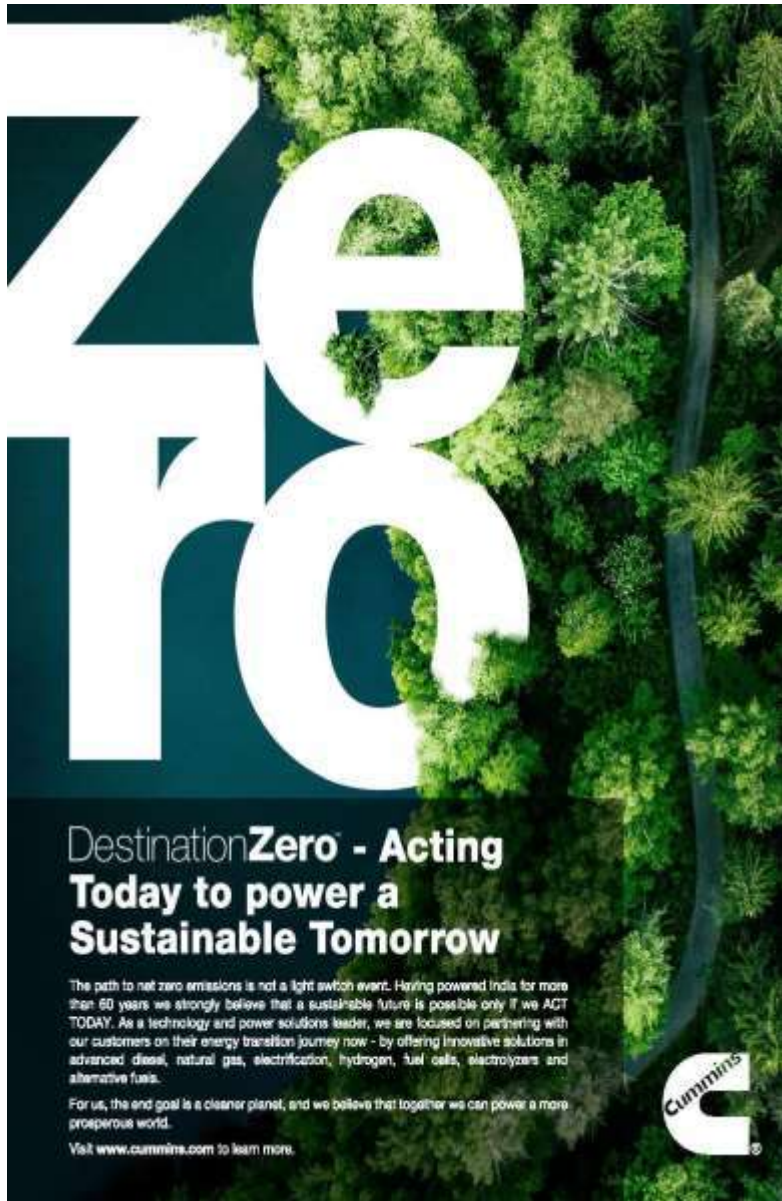
Maharashtra: The top recipient of FDI in 2023, with \$14.80 billion

Karnataka: \$10.42 billion in 2023

Delhi: \$7.53 billion in 2023

Gujarat: \$4.71 billion in 2023

5<sup>th</sup> is TamilNadu



German company Bioenergy has made its entry into the Indian market through a partnership with startup Gruner Renewable Energy (GRE).

Achal Thool, a businessman based in Nagpur, has invested Rs20 crore in constructing a 50-tonne-per-day biogas plant near Nagpur, which is expected to start operations in the coming months. This project will utilise Bioenergy's technology and engineering design, solidifying the partnership with GRE.

Utkarsh Gupta, CEO, Gruner Renewable, mentioned that a typical plant with a feedstock capacity of 40-50 tonnes per day will cost around Rs15 crore to set up and produce 2-3 tonnes of gas per day. It is estimated that 1 tonne of biomass will generate approximately 90 cubic meters of gas.

With over 300 plants built in 12 countries, Bioenergy has established itself as a leader in the field. Currently, the company is constructing the world's largest biogas plant in Malawi, Africa, where the gas will be used to fuel a 56 MW power plant.

Gupta expressed confidence that Gruner Renewable would be able to facilitate the creation of at least 100 biogas plants by 2023, aligning with the Indian government's initiative to establish 5,000 such plants by 2024.



The green hydrogen ecosystem being created in Kerala will be an example for all the states, said a key official of German Development Agency, GIZ, which has awarded the tender for Kochi hydrogen hub to research and consulting firm, MEC Intelligence.

By linking all stages and phases eventual offtake will be ensured, which is a key prerequisite for securing financing for the private sector. By developing in phases, it also allows us to focus on priorities for investment into joint infrastructure needs,” he said.

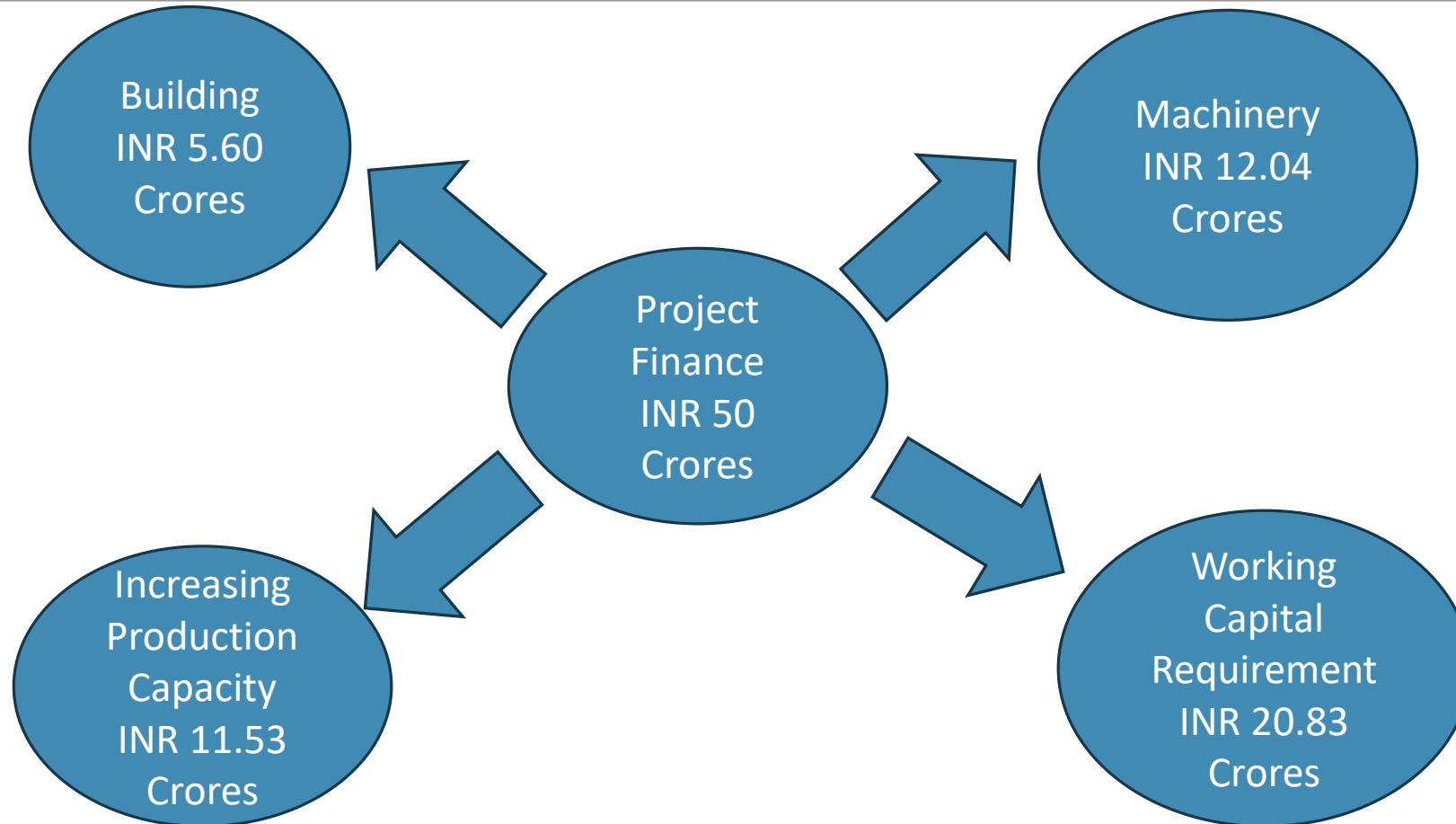
**THIS PROJECT IS EXPECTED TO COMPLETE IN DECEMBER 2023.**

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Wind power generation capacity in India has significantly increased in recent years. As of 31 March 2024, the total installed wind power capacity was 45.887 gigawatts (GW). India has the fourth largest installed wind power capacity in the world.

# Recent FDI Assignment

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- ❖ Madurai Legacy Waste Tender Value Approximately Rs.37.75 Crores.  
Less GST Rs.32 Crores X18% = Rs.5.76 Crores.  
(Rs.37.75 - Rs.5.76 Crores) = Rs. 32 Crores
  - ❖ Tender Value to Bidder (Contractor).  
Rs.1.50 Crores Equivalent to 4.8 %.
  - ❖ Total Legacy Waste Volume - Cubic Meter 485000/- Rs.50 Per Cubic Meter.
  - ❖ Approximately Rs.2.40 Crores. 15 Months' Time Project will be Completed.  
Per Day 2 X 600 Cubic Meter will be Pre-Processed.
  - ❖ Total 1200 Cubic Meter Per Day X 400 Working Days (Maximum 550 Days-  
including Holidays) Time the Project will be Completed including Machinery  
Commissioning Period.

S.NO	Madurai Legacy Waste Tender	Total Legacy Waste Volume
1.	<p>Madurai Legacy Waste Tender Value  Approximately Rs.37.75 Crores.  Less GST Rs.32 Crores X18%  =Rs.5.76 Crores.  (Rs.37.75 - Rs.5.76 Crores) = Rs. 32 Crores</p>	<p>Total Legacy Waste Volume - Cubic Meter  485000/- Rs.50 Per Cubic Meter.  Approximately Rs.2.40 Crores. 15 Month's  Time Project will be Completed. Per Day 2 X  600 Cubic Meter will be Pre-Processed.</p>
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# MABIF (NABARD)



**பசுமை விகடன்**  
மன்ஸின் வளமே மக்கள் வளம்

பசுமை விகடன்  
25.4.2024 இதழில்

மாட்டு எரு... கலப்புத் தீவனம்...  
பயோபிளாக் மீன் வளர்ப்பு...  
மதிப்புக்கூட்டப்பட்ட பொருள்கள்  
மாதம் ₹ 1 கோடி...

'முதலீடு வேண்டாம்... ஈயம் உண்டு!'  
மதிப்புக்கூட்டும் அளவளவிகள்

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