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Transforming India To Developed Nation Environment and Sustainability

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ABSTRACT

The relationship between humanity and the environment is increasingly strained due to rapid industrialization and urbanization. Climate change, biodiversity loss, and resource depletion are pressing issues that require urgent attention. Sustainability is crucial for a sustainable future, emphasizing a harmonious relationship between environmental health, economic growth, and social equity. Resource conservation, biodiversity, waste management, transportation, urban planning, and education are essential for promoting sustainability. Governments and organizations play a pivotal role in promoting sustainability through policy and regulation, such as international agreements like the Paris Agreement. By embracing sustainability principles, we can create a more resilient future for ourselves and future generations. Recognizing our interconnectedness and taking responsibility for the stewardship of our environment is essential for preserving the beauty and bounty of our world for future generations.

Keywords: Sustainable Development Goals (SDGs), Renewable Energy, Waste Management, Water Conservation.

INTRODUCTION

Introductory Environmental sustainability and the goal of a "Developed India," or Viksit Bharat, are closely related. The task of striking a balance between development and ecological integrity is more important than ever as India navigates its rapid economic growth and urbanization. This study explores the relationship between development and environmental sustainability, emphasizing the value of include sustainable practices in legislative frameworks and neighborhood projects. We want to discover solutions that not only advance economic development but also guarantee the preservation of natural ecosystems for future generations by investigating the pressing environmental issues of the day, such as pollution, resource depletion, and climate change. The ultimate objective is to present a picture of a prosperous and sustainable India where growth is balanced with environmental sustainability.

KEY ASPECTS OF ENVIRONMENT AND SUSTAINABILITY:

- Environmental and sustainable development is a holistic approach that balances human societies' needs with the preservation and restoration of the natural environment. It emphasizes the need for a long-term vision that integrates economic growth, social equity, and environmental protection to ensure current and future generations can thrive within the Earth's ecological boundaries. Key aspects of this approach include sustainable resource management, pollution control and waste management, social justice and inclusion, sustainable cities and urban planning, biodiversity and ecosystem preservation, climate change adaptation and mitigation, and the green economic idea.
- Sustainable resource management involves managing renewable resources to prevent depletion and degradation while replacing non-renewable resources with sustainable alternatives. Circular economy principles are increasingly adopted, emphasizing waste reduction through recycling, reuse, and responsible product design. Pollution control and waste management focus on minimizing pollution and managing waste effectively through technology, regulation, and international agreements like the Paris Agreement and the Kyoto Protocol.
- Climate change mitigation and adaptation involve mitigating the causes of climate change and adapting to its effects. Renewable energy sources are central to reducing carbon emissions and transitioning away from fossil fuels. Sustainable cities and urban planning emphasize green infrastructure, efficient public transportation systems, sustainable building practices, and energy-efficient designs to reduce emissions and improve air quality.
- Social equity and inclusion aim to reduce poverty and inequality by ensuring that economic growth benefits all people and communities. This includes providing access to basic needs like clean water, education, healthcare, and affordable energy. The green economy concept integrates economic development with environmental sustainability, creating jobs and stimulating economic growth through investments in renewable energy, sustainable agriculture, green manufacturing, and eco-tourism.

OBJECTIVES FOR VIKSIT BHARAT:

Prime Minister (PM) Narendra Modi's goal for Viksit Bharat by 2047 was outlined by Finance Minister Nirmala Sitharaman in the Interim Budget 2024. She stated in her statement on the Interim Budget 2024 that the government is striving for comprehensive, all-encompassing, and ubiquitous development. The four main groups that the government will target are "Garib" (poor), "Mahilayen" (women), "Yuva" (youth), and "Annadata" (farmers). The whole Budget 24–25 outlined the detailed plan for attaining Developed India, or Viksit Bharat. To generate lots of opportunities in keeping with the plan presented in the interim budget, Finance Minister Nirmala Sitharaman envisioned ongoing work on the following nine objectives in Budget 2024–2025. 2047 Viksit Bharat: Employment, Resilience, and Agricultural Productivity and Skill Development

SUSTAINABILITY STRATEGIES AND SOLUTIONS:

- **Renewable Energy Adoption:** Greenhouse gas emissions and reliance on non-renewable resources can be decreased by switching from fossil fuels to renewable energy sources.
- **Energy Efficiency:** Significant energy savings can result from increasing building, transportation, and industrial energy efficiency.
- **Circular Economy:** Designing products for longevity, reuse, and recyclability reduces waste and conserves resources.
- **Water Conservation:** Water usage can be greatly decreased by putting water-saving practices and technologies into place.
- **Sustainable Transportation:** Reliance on private vehicles can be decreased by creating bike infrastructure, public transportation networks, and pedestrian-friendly urban designs.
- **Green Building Practices:** Constructing energy-efficient buildings using sustainable materials can significantly lower carbon emissions.
- **Community Engagement:** Engaging communities in sustainability initiatives fosters a sense of ownership and responsibility.
- **Policy and Regulation:** Governments play a crucial role in establishing policies and regulations that support sustainability.
- **Corporate Responsibility:** Businesses can adopt sustainable practices by minimizing waste, reducing energy consumption, and sourcing responsibly.
- **Technological Innovation:** Embracing technological advancements can drive sustainability.
- **Education and Advocacy:** Raising awareness about sustainability issues and promoting environmental education can empower individuals and communities to take action.

VITAL ROLE IN SUSTAINABLE GROWTH:

Sustainable growth is crucial for balancing economic development with environmental stewardship and social equity. Key elements in fostering sustainable growth include effective government policies, business leadership, community engagement, technological innovation, education and awareness, financial investment, international cooperation, and research and development. Government policies promote renewable energy, waste reduction, and conservation efforts, while business leadership adopts sustainable practices through operations, supply chains, and consumer practices.

Community engagement fosters a sense of ownership and responsibility, while technological innovations like clean energy solutions and waste management technologies reduce environmental impacts. Education and awareness empower individuals to make informed choices and advocate for sustainable practices. Financial investment in green technologies and infrastructure is essential for sustainable growth. International cooperation facilitates knowledge sharing and technology transfer, while ongoing research can identify new methods and solutions for sustainable growth. By prioritizing sustainability across all sectors, a resilient economy can be created, supporting environmental health and social well-being, ensuring a viable future for generations to come.

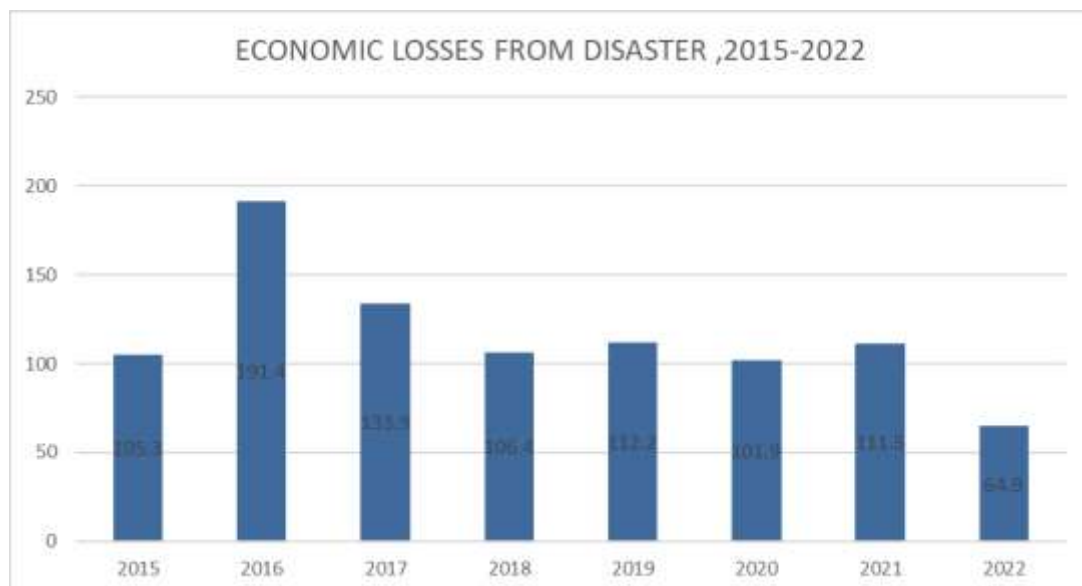
STRATEGIES OF ENVIRONMENTAL SUSTAINABILITY DEVELOPMENT

- **Integrated Land Use Planning:** Balances development, conservation, and recreation to protect natural habitats and minimize urban sprawl.
- **Renewable Energy Expansion:** Reduces reliance on fossil fuels by investing in renewable energy sources.
- **Sustainable Agriculture Practices:** Encourages permaculture, agroecology, and organic farming as ways to boost biodiversity, lower chemical use, and strengthen soil health.
- **Water Resource Management:** Develops efficient systems for preserving water resources, including rainwater harvesting, wastewater recycling, and sustainable irrigation.
- **Waste Reduction and Recycling Programs:** Implements comprehensive waste management strategies to decrease landfill waste.
- **Green Infrastructure Development:** Invests in parks, green roofs, and urban forests to enhance urban resilience.

- Transportation Improvements: Enhances public transportation systems and creates pedestrian-friendly and bike-friendly infrastructure.
- Community Engagement and Education: Involves local communities in environmental decision-making to foster a sense of ownership and responsibility.
- Biodiversity Conservation Initiatives: Protects natural habitats and implements conservation programs.
- Sustainable Tourism Development: Promotes eco-tourism to create economic opportunities while preserving natural and cultural resources.
- Policy and Regulatory Frameworks: Establishes and enforces laws that promote environmental protection and hold polluters accountable.
- Research and Innovation: Invests in research and development to lead **Human Responsibility for Environmental and Sustainable Development:**
- Environmental Stewardship: Judgementary use of natural resources including water, energy, and materials.
- Biodiversity Protection: Protecting natural habitats, supporting conservation efforts, and considering wildlife and plant species.
- Pollution Reduction: Minimizing waste, using eco-friendly products, and advocating for cleaner technologies.
- Sustainable Lifestyle Choices: Mindful Consumption, Energy Efficiency, and Sustainable Transportation.
- Advocacy and Education: Raising Awareness, Engaging in Policy Advocacy, and Community Involvement.
- Intergenerational Responsibility: Leaving a Positive Legacy and Sustainable Development Practices.

FOR EXAMPLE:

Here is the diagram which shows about the economic losses from disasters from the year 2015 to 2022.



(Reference: <https://unstats.un.org/sdgs/report/2024/The-Sustainable-Development-Goals-Report-2024.pdf>)

CONCLUSION:

India's sustainable development trajectory from 2004 to 2024 has been marked by significant environmental efforts. The country has grown renewable energy capacity, expanded organic farming, improved recycling rates, and increased electric vehicle sales. The increase in forest cover demonstrates successful biodiversity conservation and afforestation initiatives. These advancements contribute to ecological health, economic opportunities, and social well-being. Integrating sustainability into policy, industry, and community practices is crucial for India's future. The journey towards sustainability requires innovation, collaboration, and responsible resource management.

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