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GREEN TECHNOLOGY PROMOTION: THE ROLE OF EDUCATION AND AWARENESS

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ABSTRACT

Green technology, sometimes known as "green tech," primarily refers to eco-friendly technologies intended to lessen adverse effects on the environment through innovation and sustainable practices. Green tech, an acronym for green technology, can also refer to clean energy production, the use of alternative fuels, and technologies that are less damaging to the environment than fossil fuels. Green tech is a type of technology that is deemed environmentally friendly based on its production process or supply chain.

Keywords: Sustainability, Green Technology, Green Education Program.

INTRODUCTION:

The long-term goal of human coexistence on Earth without destroying its natural resources is more dangerous than the threat posed by climate change. The ultimate objective is to build a better future for the earth and its inhabitants. Green technology serves as a catalyst, driving societies toward growth models that align with long-term viability and sustainability. India's prime ministers are preparing to start a "new mass movement" against the usage of plastic. The Union Government approved the "Namami Ganga Program" in recognition of the Ganga's cultural and environmental significance. The Ministry of Environment, Forest, and Climate Change introduced the green skill development initiative in June 2017, shifting away from technical or industrial skills.

The Swachh Bharat Abhiyan, a national cleaning program, is arguably the most well-known environmental initiative implemented by the Indian government. India's nationally decided contribution aims to reduce the GDP's emission intensity by 45% by 2030 and have 1 billion pro-planet individuals between 2022 and 2028. Students have the capacity to develop into thoughtful practitioners of social issues, offering society better alternatives. By putting the green education program's tenets into practice, educators, staff, and students will begin making modest commitments to sustainability.

Green Tech Types: While climate change and carbon emissions are currently seen as some of the most urgent global challenges, there are several initiatives to solve local environmental risks. Green technology is a broad category that includes various sorts of environmental restoration.

Alternative Energy: Many companies are working to develop alternative energy sources that don't produce atmospheric carbon in order to provide a competitive alternative to fossil fuels. Solar and wind power are currently among the most affordable energy sources, and solar panels are accessible to American homeowners on a consumer scale.

Electric Automobiles: According to the environmental protection agency, transportation-related activities account for only one-third of greenhouse gas emissions in the United States. Many automakers are looking into ways to cut emissions, such as switching to electrical power or creating engines that are more fuel-efficient.

Sustainable Farming: From the high costs of land and water use to the ecological effects of pesticides, fertilisers, and animal waste, farming and livestock have a significant environmental impact. Consequently, there are several prospects for green technology in the field of agriculture.

Recycling: While plastic, glass, paper, and metal waste are the most common types of recycling, more complex processes can be employed to recover costly raw materials from waste or automotive components. Recycling aims to save limited resources by reusing materials or finding sustainable substitutes.

Green education's contribution to attaining sustainable development objectives According to the review, green education challenges students and educators to think critically and holistically about global environmental issues and solutions. By safeguarding health, improving student performance, saving money, lowering carbon emissions, using less water, and offering a unique educational opportunity, second green schools help educators, students, parents, and the community as a whole.By guaranteeing a fantastic learning environment with high indoor air quality, green education and green learning environments preserve health. These schools are built with green building materials, improved ventilation, and daylighting.

Green education's methods for promoting the Sustainable Development Goals (SDGs)

Techniques	An explanation

Native-based education	Integrating natural aspects into the classroom, promoting conscious action for conservation, and creating a connection with the environment.
Promotional excellence in research	Putting a strong emphasis on research excellence to identify natural solutions for innovation, economic growth, and environmental problems while enhancing human well-being.
Building capability and providing training	Concentrating on teaching SDG-aligned information and skills, assessing organisational capacity, and determining members' capacity to perform well in challenging situations.
Cooperation and networking	Working together with stakeholders, policymakers, and companies to create evidence-based environmental planning and decision-making.
Building capability and synthesising knowledge	Educating people and organisations about the advantages of nature, integrating training with the SDGs, and synthesising knowledge and building capacity in areas connected to nature-based solutions
Participation in the community and consultations	Encouraging a sense of ownership and dedication to sustainable endeavours by actively involving communities and stakeholders, soliciting feedback, and making sure that environmental activities are pertinent and successful.

GREEN TECHNOLOGY IN EDUCATION IS A PROBLEM

Additionally, the ministry is crucial in advancing green technology in all spheres of growth for the shift in the economic paradigm toward vision 2020. According to a study by Farah Wahida Moh. Yusuf et al. (2013), one instance of utilising green technology in daily life is when people attempt to adopt as many green habits as they can from the simplest option. Instead than purchasing brand-new bottled water, try bringing a bottle from home. Additionally, it is recommended that people use their own food containers rather than Styrofoam or non-green plastic ones.

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Encouraging people to successfully adopt a green lifestyle is crucial. Therefore, the idea of "going green" can also be implemented through technologies like compost and combustion, which can help reduce waste while lowering its use, recyclable materials, and composting kitchen trash, which nourishes the soil.

USING GREEN TECHNOLOGY IN THE CLASSROOM

1. **Ecological Infrastructure**: To lessen their environmental impact, schools and colleges should install rainwater collection systems and renewable energy sources like solar panels.
2. **Eco-friendly Online Education**: Managing e-learning operations more effectively can lower the energy consumption of online instruction, while utilising digital resources over printed materials reduces paper waste.Waste Management: Implementing classroom composting, setting up school gardens and conducting waste audits are hands-on-ways to teach waste reduction, soil health and bio-diversity.

Encouraging Green Skills: Educational programs can focus on developing "green" skills and students through project-based learning, critical thinking and collaboration, preparing them for green jobs and environmental leadership.

Integration of Technology: Using technology such as green screens for video content creation in language teaching or developing application to manage energy consumption and waste can help bridge the gap between digital and sustainable practices.

ADVANTAGES FOR INSTITUTIONS AND STUDENTS

1. Promotes awareness of the environment: Green technology is an essential instrument for fostering in kids a sense of environmental responsibility and awareness.
2. Fosters Critical Capabilities: By tackling regional environmental challenges, it gives students the chance to hone their critical thinking, problem-solving, and teamwork abilities.
3.Boosts Sustainability: Green technology helps educational institutions become more sustainable and contribute to a healthier environment by encouraging eco-friendly practices and lowering resource usage.

DISCUSSION

Undergraduate courses and programs pertaining to green information technology are similarly in their early stages. The number of programs, projects, sustainable computing technologies, and simulated applications that can be used to calculate the carbon footprints in the design of sustainable technology is expected to grow over time. According to the survey, educational initiatives are crucial for encouraging energy-saving and renewable practices.

Because they are pushing other industries to become more environmentally friendly, educational approaches are taking the lead in this direction. Sustainability that reduces ecological degradation is the focus of green environmental innovations. The efficiency of health and safety as well as its ecological effects would be greatly improved by the usage of renewable energy.

CONCLUSION

It is commonly established that education has a favourable impact on both personal well-being and global progress. If everyone wishes to stop engaging in unhealthy behaviours, schooling needs to be redesigned to guide everyone into a secure and productive future. The report's conclusions indicate that environmental curriculum-related models are most suited for students in accordance with sustainable development education and the integration of green technology components to address environmental issues.

Even Nevertheless, many believe that green education has a bright future due to the availability of creative options at universities, new jobs focused on addressing environmental concerns, and increased public awareness of environmental issues.

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