

Strategies and Policies for Achieving Sustainable Development

***Dr. Mamta Choudhary**

Abstract

The goal of sustainable development is to raise real income per capita, enhance general well-being, health, and education, as well as improve the quality of natural resources and the environment. Sustainable improvements in people's quality of life are thereby achieved. The primary objective of development policy, according to the World Development Report of 2000, is to provide long-lasting increases in the standard of living for all individuals. Sustainability in the economy and environment is not a novel concept. Ecology, society, and economy must coexist in harmony, as many cultures throughout human history have acknowledged. By progressively altering how we create and apply technology, sustainable development urges us to preserve and improve our foundation of natural resources. The freedom to fulfill fundamental requirements for food, energy, work, water, and cleanliness is an essential for all nations. There must unquestionably be a sustainable population level in order to accomplish this in a sustainable way. In order to ensure that emerging countries' economies grow at the same rate as those of industrialized countries, economic growth should be encouraged. One of the most significant paradigm shifts in development is sustainable development, which is a key item on the 21st-century agenda. In this work, an attempt has been made to emphasize the idea of sustainable development and its significance in the current environment. A sympathy for the policies and actions for sustainable development is also expressed in the paper.

Keywords: Cultures, environmental, technologies, sustainable development, harmony

In 1980, the International Union for the Conservation of Nature and Natural Resources launched the concept of "sustainable development" with the release of the World Conservation Strategy. As per the Bruntland Report, sustainable development entails fulfilling the requirements of the current generation without compromising those of future generations. Therefore, development that should continue is referred to as sustainable development.

A strategy for a nation's economic growth that doesn't sacrifice the environment's quality for coming generations is known as sustainable development. In addition to advocating for resource conservation so that future generations can utilize these resources, sustainable development addresses the ecological, social, and economic dimensions of development in the here and now. It considers the evolution of the entire human race, which shares a common future.

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Importance of Ecological Development

The following highlights the significance of sustainable development:

1. Being mindful of the ecological balance and making prudent use of the resources at hand.
2. To stop environmental damage and emphasize the need to protect the environment.
3. In order to avoid overusing resources.

Objectives

Sustainable improvement aims to achieve the following main goals:

1. Securing long-term gains in everyone's quality of life.
2. Improving economic growth by enhancing the standard of living and satisfying fundamental needs
3. Offering opportunities for public participation and environmental cleanup.
4. Fostering parity among generations.
5. Seeking to sustain the stock of all environmental and natural resource assets while optimizing the net benefits of economic development.
6. Seeking to boost economic growth while preserving and improving the stock of physical, human, and environmental capital so as not to negatively impact present or future generations.
7. Seeking to ensure that there is strong sustainability and that the stock of natural capital does not decrease. Furthermore, a decline in the overall value of the pool of human, physical, and natural capital is necessary for weak sustainability.

Strategies for Long-Term Sustainability

The following are the major actions for sustainable development:

1. To advance environmental awareness and education - We should start to have a sense of earthly belonging as early as possible. This can be accomplished by having environmental education start in the early grades. The development of these emotions can also benefit from media. The changes made to the policy-making process from one that represents and is guided by popular will to one that is governed by a chosen few who have found means of enforcing laws created by the international community in order to promote what they see as sustainable development.

2. The three "R" method - Reduce, Reuse, and Recycle are the three "Rs." Natural resources should be used more frequently rather than being dumped into the waste stream, even though we should be reducing their excessive use. Recycle the materials to ease the burden on the natural resources we currently have.

3. Right technology - Less waste and less resources should be used by the technology. It is incredibly resource-efficient, ecologically benign, culturally appropriate, and locally adaptive.

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4. To use materials in accordance with the environment's carrying capacity - An ecosystem's carrying capacity is a major factor in determining its sustainability. A system enters a state of environmental degradation when its carrying capacity is exceeded, and this process continues until there is no more capacity to be stopped. Two fundamental elements make up carrying capacity.

A. The ability to support systems that are both protective and productive make up its structure.

B. Absorbent Potential - The systems that make use of the wastes generated by human activity make up this structure. Providing answers to a wide range of environmental issues through innovative production methods is the key to sustainable growth, not cutting down. The overuse of resources cannot be the foundation for economic growth in order to attain sustainability; instead, the resource base must be improved.

5. Control of Population - Stopping population increase is crucial if the environment is to be preserved.

6. Solid Waste Management - Planning is crucial when it comes to managing solid waste. It has been proposed that compost be made from rural waste.

7. Tight Implementation of the Environment Conservation Act - In 1986, India established the Environment (Protection) Act. Controlling the decline in environmental quality was its main goal. There should be tight enforcement of this legislative action.

8. Control of Pollution from Agriculture and Industry - Air and water pollution brought on by industrial development must be appropriately handled for the sake of environmental conservation. Pesticides and chemical fertilizers should be used sparingly to prevent agricultural pollution.

9. The Campaign for Reforestation - For the purpose of protecting the environment, a massive afforestation campaign ought to be started.

10. Water Resources Management - Cleaning up river waterways is necessary. It's also important to make plans for the rural population's access to clean drinking water.

Strategies or Prerequisites for Sustainable Growth

In general, measuring sustainable development is challenging. It includes estimating the cost of environmental harm and contrasting it with the expense of averting it. It deals with a number of issues, such as capital stock measurement, accounting for natural resources, and selecting the right discount rate to preserve an ideal balance between the use and preservation of natural resources. Here, however, we talk about the prerequisites for achieving sustainable growth. These are -

1. Calculating Stock of Natural Capital -

A few examples of natural resource assets or environmental assets are "soil fertility, forests, fisheries, the capacity to assimilate waste, oil, gas, coal, the ozone layer, and biogeochemical cycles." Preserving and enhancing the natural capital pool is a necessary requirement for sustainable development. The cost-benefit analysis of adjustments to the natural capital stock can be used to quantify this. Thus, the term

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"sustainability" refers to the preservation and enhancement of natural capital assets. Certain economists believe that human and man-made capital, rather than natural capital, should be prioritized. According to them, sustainable development is about the preservation and enhancement of the total stock of human and artificial capital. This viewpoint is shared effectively and fairly across generations. Taking into account the total capital stock, which allows for the substitution of both natural and artificial capital. The social rate of return can be used to guide this. However, because the money made from environmental degradation is spent rather than invested, this rarely occurs.

2. The Green Accounting or Natural Resource Sector -

Green accounting is an additional criterion or measure of sustainability. It enables the calculation of a country's income by accounting for the harm and depletion of that nation's natural resource base economically. This indicates the amount of sustainable income that can be attained without reducing the amount of natural resources in the stock.

Therefore, the system of national income accounts needs to be adjusted in terms of the stock of natural assets. The calculation of the gross national product (GNP) would be substituted with a national output measure that accounts for the financial burden of resource degradation. It required both direct and indirect production of products and services.

3. Evaluating the Environment -

When comparing the cost of prevention to the worth of the environment, there is another issue. It has to do with weighing the costs and advantages of environmental protection. In the 1992 World Development Report, economists proposed four methods for the economic assessment of environmental harm. They are –

A. Market Prices: Market prices are used to assess negative health consequences and productivity losses brought on by environmental harm. Evaluating losses from deforestation, air and water pollution, and soil erosion is the process.

To obtain monetary values, the ecological link between environmental damages and their consequences on output or health is calculated using pricing.

B. Replacement Costs: Individuals and businesses spend money installing replacement equipment to prevent environmental harm to the land, water, and air. An estimate of the environmental harm can be obtained from these investments. It is quite challenging to quantify the impact of damages.

C. Surrogate Markets: The impact of environmental harm on other markets, such as real estate prices and labor pay, is also considered.

Risk is the basis for property valuation.

Jobs with significant environmental risk typically pay well and come with a large risk premium. However, because workers are not aware of the environmental harms that have occurred, this strategy is not feasible.

D. Surveys: Surveys are yet another tool for assessing environmental damage. This approach is used to

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determine how the environment affects developing nations. It can assist "to determine the amenity value of species or landmarks."

4. Social Discount Rate –

It's well accepted that expenses are a direct result of environmental deterioration. Additionally, it enhances the advantages for resource consumers. However, the challenge lies in quantifying the advantages and disadvantages of environmental impacts on both current and future generations. A rate of discount is required for this purpose in order to discount all expenses and benefits. Discounting the costs and benefits of the environment, however, often causes economists much confusion. We can draw the conclusion from this discussion that a suitable metric for gauging sustainable development needs to be developed.

Strategies for sustainable development:

It is widely accepted that environmental deterioration is a direct result of global development in the agricultural, industrial, urban, and infrastructure sectors as well as population expansion.

Put differently, the state of the environment deteriorates, causing harm to human health, decreased economic output, and the loss of amenities. To stop the negative effects of environmental deterioration, it is urgently necessary to make wise decisions about economic, environmental, and environmental policies as well as environmental investments. Please allow us to elaborate on these policies:

1. Decrease Poverty - Reducing poverty is the main goal of police. Hence, initiatives like this one that give the underprivileged class more job options ought to be initiated. Reducing population increase can be achieved by expanding family planning, health, and education programs provided by the government. To improve the nation's ecology, significant investments should be made in civic amenities such as clean water supplies, sanitary facilities, and alternative housing options to slums.

2. Eliminating Subsidies - By eliminating subsidies for the use of resources by the public and private sectors, environmental deterioration can be decreased without posing a net financial risk to the government. In actuality, the inefficient use of irrigation water, fuel, gasoline, pesticides, fertilizers, and other subsidized resources contributes to environmental issues. The nation will profit from eliminating or cutting subsidies on all fronts.

3. Adoption of Market-Based Approaches - Market-based strategies must be implemented immediately to save the environment. The impact of exploiting natural resources on the environment is brought to the attention of industries and consumers. The optimal strategy is to use market-based instruments, or MBIs. It comes in two varieties. (i) Founded on both price and quantity. Input taxes, product charges, marketable permits, depositor fund systems, pollution charges (also known as emission taxes or pollution taxes), differential tax rates, and user administrative costs are some examples of the environmental taxes that they take the shape of. (ii) Financial assistance for water and air resources pollution abatement technology.

4. Economic Incentives – To a greater extent, economic incentives related to quantity, pricing, and technology can also be beneficial. The most common way that resource users receive incentives is through variable rates based on the amount of pollutants they consume in the air, water, and land. If their waste and pollution output are less than the government-imposed emission regulations, they receive refunds.

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5. Law and Regulation - Regulations are yet additional tool for stopping environmental deterioration. Decisions about the cost, amount, or price of pollution, resource use, or technology must be made by regulators. Whether or not policies should directly or indirectly address the environmental issue is up to the regulatory body. It establishes technical requirements, rules, and fees for pollutants found in the air, water, and land. When enforcing environmental regulations against polluters or resource users in the public and private sectors, regulatory authorities ought to maintain objectivity.

6. The Policy on Trade - Trade policy and the environment are related in two ways: (i) in terms of domestic policy changes, and (ii) in terms of global trade policy. The focus of domestic trade policy is on the relocation of less polluting industry outside of urban areas and the adoption of cleaner technologies and environmentally friendly procedures for polluting sectors.

7. General Knowledge - Enhancing environmental conditions can be achieved with great effectiveness through public participation and knowledge. Controlling environmental degradation and maintaining a clean environment can be greatly aided by holding official and informal education programs about environment management and environmental awareness. Thus, public involvement can also be beneficial for reforestation, wildlife protection, park management, sanitation and drainage system upgrades, and flood control.

8. Engaging in International Environmental Initiatives -These days, it's believed that taking part in international environmental initiatives might lessen the harm caused by environmental deterioration. As a result, attempts should be undertaken to reach environmental protection agreements. When it comes to phase-out of ozone-depleting substances, they include the Montreal Protocol.

How to Achieve Sustainable Development

The following guidelines can help us attain sustainable development:

1. Human activity restrictions can be used to achieve it.
2. Instead of employing input, technological advancement should be input-effective.
3. The pace of salvation should not be higher than the rate of consumption.
4. When it comes to renewable resources, the rate of consumption shouldn't outpace the rate at which renewable alternatives are produced.
5. Pollution of all kinds ought to be reduced.
6. By using natural resources wisely, it is possible to attain.

Conclusion

The definition of sustainable development is progress that satisfies current needs without jeopardizing the ability of future generations to satisfy their own.

Since the end of the 1950s, there have been various iterations of the idea of sustainable development.

Environmental, social, and economic are the three facets of sustainable development. These are measures

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of a development program's or project's performance that are sometimes referred to as the "triple bottom line." Based on the foregoing arguments, we can conclude that further progress requires a better and cleaner environment. Better environmental stewardship is fundamental to sustain growth, replacing the outdated idea that progress is at odds with the environment. A strong guiding concept for development must be sustainability. These have taken on a worldwide scope, and in order to protect, conserve, and improve environmental resources as well as uphold sustainable development, concerted global efforts are required.

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