



International Journal of Research Publication and Reviews

Journal homepage: www.ijrpr.com ISSN 2582-7421

Sustainable Development in Action: An Analytical Review of the 17 SDGs

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ABSTRACT:

Sustainable Development Goals (SDGs), adopted by the United Nations in 2015, represent a universal call to end poverty, protect the planet, and ensure prosperity for all by 2030. This paper provides a comprehensive review of the 17 SDGs and their interrelation with human health and well-being. Each goal—ranging from poverty eradication and gender equality to climate action and global partnerships—plays a vital role in achieving inclusive and sustainable growth. The study emphasizes that human health is central to sustainable development, linking environmental, economic, and social dimensions. The paper further highlights key challenges such as inequality, climate change, and resource scarcity, while suggesting policy frameworks and global initiatives necessary for progress. The findings underline that integrated and cooperative efforts across nations are crucial to ensure sustainable human development and a balanced future.

Keywords: Sustainable Development Goals, Human Health, Economic Growth, Environmental Sustainability, Global Partnership, Equity, Climate Change.

Introduction

Now a days the concept of Sustainable development plays an integral role in the sense that it interconnects economic growth, social equity along with environmental protection. It is conceptualized as meeting the needs of present generation without compromising the future needs. It is simply realising the difference between needs and wants. What we need is entirely differed from what we want. Needs are essential for our subsistence, but wants are for a luxurious life. For e.g.: we need a glass of water to quench our thirst is a need, but if we need a glass of soft drink to satisfy the same is want. So, it doesn't mean that the complete abstinence forms the present consumption is required to meet the needs of future, rather we need to create some assets might be real or virtual for themselves as a result of our consumption. It might be in the form of various infrastructures, educational facilities, information...etc.

Sustainable Development Goals

It is a framework with a wide coverage of 17 goals, ultimately aims to reduce poverty and hunger along with protecting our nature for maintaining peace and prosperity.

1. No poverty.
2. Zero Hunger.
3. Good Health and Well-Being.
4. Quality Education.
5. Gender Equality.
6. Clean water and Sanitation.
7. Affordable and Clean Energy.
8. Recent work and Economic Growth.
9. Industry Innovation and Infrastructure.
10. Reduced Inequalities.
11. Sustainable Cities and Communities.
12. Responsible Consumption and Production

13. Climate Action.
14. Life Below water.
15. Life on Land.
16. Peace justice and strong institutions.
17. Partnership for the goals.

No Poverty: This goal aims to remove poverty in all its dimensions by 2030. It implies the denial of choices in simple sense. Moreover, it is more than just the lack of income, it also includes lack of access to basic services like health care, education, clean water, and housing. The goal realises that poverty reduction requires inclusive economic growth, social protection, and equal access to resources and opportunities. So, it can be avoided through by promoting decent work, expanding social protection programs, investing on human capital both in education and health, empowering women and enhancing disaster risk reduction and climate resilience. Even though this is an important goal to achieve, it is also challenged by some difficulties like unequal distribution of opportunities and resources, unhealthy administration and corruption, growing issues like cost of living and unemployment and climate related issues. Major initiatives to eradicate poverty are MGNREGA, Conditional Cash transfer programs (Conditional Cash Transfer (CCT) programs are social protection policies that provide money directly to poor households — but only if they meet certain behavioural conditions. These conditions usually relate to education, health, or nutrition, such as ensuring children attend school or families attend health check-ups.) and UNDP's Poverty Reduction Initiatives.

Zero Hunger: It aims to end hunger thereby helps to achieve food security, enhancing nutrition and promoting sustainable agriculture especially by 2030. This is a key challenge amidst of availing food by producing the same by the world to feed everyone, it is a question of not availing food rather nutritious food. This problem arises because of a lot of issues like poverty, conflict and political instability, climate change (drought, floods, and crop failure) and food wastage. Major strategies that help to achieve this goal is to promote sustainable agriculture and climate resilience, provide supports to peasant farming, enhancing nutritional programs, enhance PDS and encourage Research and Development. Major challenges in attaining this objective are the climate change, steep rural poverty, rising inflation, unsustainable farming methods and scarcely available land and resources. Eg strategies for attaining Zero Hunger includes, India's National Food Security Act-2013, World Food Programme (WFP), FAO's 'Save Food' initiative, and African Union's Malabo Declaration (It aims to end hunger and reduce poverty by half through Agriculture oriented growth)-2014.

Good Health and Well-Being: It aims to achieve healthy life and enhance well-being for all. It says that health is important, because without health people do not have good learning capacities, good working capacities...etc. Therefore, these objective stresses on universal access to quality healthcare, disease prevention to attain sustainable development. For attaining this goal, the following sub objectives needs to be attained.

- A) Reduce maternal mortality to less than 70 per 100000 live births.
- B) Reducing the mortality especially under 5 mortalities to 25 per 1000 live births.
- C) End Epidemics like AIDS, TB, Malaria and other tropical diseases.
- D) Reduce premature mortality through prevention and treatment.
- E) Ensure reproductive and sexual healthcare services universally.
- F) Reduce death and injuries.
- G) Reduce death and illness.

The main objective of good health and well-being is challenged by inequality in accessing healthcare services between rich and poor countries, increasing the burden of non-communicable diseases, Mental health issues and Pandemics. The strategies that can adopt to attain this objective are strengthening primary health care and public health infrastructure, enhance universal health coverage, health education and disease prevention, promoting healthy lifestyle and mental well-being, promote Research and Development in the fields of vaccination and medicines, improve sanitation, water quality and environmental health.

Various initiatives were also adopted both at the national level and global level;

1. Universal Health Coverage of WHO.
2. India's Ayushman Bharat.
3. Gavi, the vaccine alliance: Expanding accessibility of immunisation in developing countries.
4. UNAIDS: works to end the global AIDS.
5. UNICEF.

Quality Education: It aims to achieve inclusive and equitable quality education and promote lifelong learning opportunities for all. It's an important driver of sustainable development, because it helps to reduce poverty, improves health, enhance gender equality and ensure peace and prosperity. This can be attained through ensuring the universal primary and secondary education to all boys and girls, early childhood development and pre-primary education to children, equal access to affordable technical, vocational and higher education, relevant skills for work, gender equality and inclusion, literacy and numeracy, education for sustainable development and finally safe and inclusive learning environments.

The major challenges in this area includes; over 250 million children are out of school globally, learning poverty means children who attend school cannot read and write, gender disparity in attaining education and inadequate infrastructure, teacher shortages and digital divide.

This can be avoided if the following strategies were adopted.

Free and equitable access to quality education, provide teacher training, provide vocational and technical assistance, ensure inclusive education and finally strengthen public private partnership in education.

Global and National Initiatives for ensuring this objective includes; UNESCO's Education for All (EFA) and Global Education Monitoring (GEM) Report. India's National Education Policy (NEP) 2020: Focuses on holistic, flexible, and multidisciplinary learning. UNICEF's "Education Cannot Wait" program for children in conflict zones. Global Partnership for Education (GPE): Supports education systems in developing countries.

Gender Equality: It implies equal rights and opportunities to all without considering their gender in all spheres of life, especially in education, employment, health, leadership and personal safety. It is basically a right and foundation for a peaceful, prosperous and sustainable world. The main objectives of this gender equality is to end all sorts of discrimination, violence, especially against women and girls, harmful exercises like child marriage and like atrocities, realizing the value of unpaid domestic work, ensure the accessibility of equal opportunities in education, employment, and decision making along with universal access of reproductive health and rights, equal rights to land, property and financial services, technological adaptation to ensure women empowerment rights for policies which promote equality and women empowerment. To ensure this objective, the society faces a lot of challenges including gender wage differences, underrepresentation of women all fields, gender-based violence, limited accessibility to education, health and digital technology and socio-cultural norms that restricts women rights. To ensure this goal, certain national and global level initiative were undertaken in the form of UN Women (for gender equality and women empowerment), CEDAW (Convention on the Elimination of All Forms of Discrimination Against Women), India's Beti Bachao Beti Padhao, HeForShe campaign and Self-Help Groups (SHGs).

Clean water and Sanitation: It is for ensuring clean water availability and sanitation to all, because water scarcity, pollution, and poor sanitation limit the growth of an economy. The main targets behind the goal were to made universal accessibility of safe and affordable drinking water, adequate sanitation and hygiene, ensure water quality, increase water use efficiency, implement Integrated Water Resources Management (IWRM), protect the metabolism of water related eco system and support and strengthen community participation. These are all essential because water is a basic human right, reducing waterborne diseases are mandatory requirement for the future growth, along with it ensures economic productivity and environmental sustainability. The major challenges in the fields are that presently 2 billion people lack safe drinking water, 3.5 billion lack sanitation facilities, water pollution is alarmingly high and climate change. To avoid such challenges, some initiatives at global and national level were undertaken in the form of UN-Water: it coordinates global efforts on water and sanitation, World Health Organization-WASH Program for ensuring sanitation and hygiene, India's Jal Jeevan Mission, Swachh Bharat Abhiyan-for ensuring sanitation and ending open defecation, African Water Facility (AWF).

Affordable and Clean Energy: This goal tries to achieve clean and sustainable energy while reducing environmental impact. The sub objectives of this goal are to ensure universal access to energy, raising the share of renewable energy, improve the efficiency in energy use and production, promote the research and development to avail clean energy, and finally expanding the infrastructure for facilitating the same. Why this is important, is a matter of concern, because it promulgate economic growth, employment, ensure quality of life, helps to reduce poverty, combat with climate change, and it is essential for obtaining better education, healthcare and industrialisation. The challenges faced in this context are about 675 million people are still far from accessing electricity especially in Sub-Saharan Africa. About 2.3 billion people rely on unsafe fuels like charcoal, firewood, cow dung and fossil fuel. The continuous usage or increasing the usage of fossil fuels contribute to global warming. Financial and technological gap reduces renewable energy expansion in developing countries. Strategies that we can adopt to achieve this goal is to invest in renewable energy projects, promote energy efficient technologies, expand energy infrastructure especially through rural electrification, promote the adoption of energy incentives and subsidies and encourage international cooperation and private sector participation. The major initiative that were adopted both at national level and global level are International Solar Alliance by India and France for promoting solar energy use, UN's Sustainable Energy for All (SEforALL) for accelerating the energy access and clean energy transition, India's Pradhan Mantri Ujjwala Yojana for ensuring LPG connections to poor households, One Sun, One World, One Grid (OSOWOG) for sharing solar energy and European Green Deal for promoting the use of renewable energy.

Recent work and Economic Growth: This goal aims to achieve sustained, inclusive and sustainable economic growth, full and productive employment and a decent work for all. This is very crucial in the sense that it is related to get a fair income, security and equal opportunities, and it tries to reduce unemployment, promote entrepreneurship and reaping the benefits of growth by all the members. Main targets which covers this goal are: sustain per capita economic growth in developing countries, promoting productive employment for women and men including disabled persons, protecting labor rights, Reducing youth unemployment, encourage entrepreneurial activity, creativity and innovation, Improve resource efficiency both in production and consumption, eliminate forced labor, child labor and human trafficking, promoting sustainable tourism and finally strengthening financial institutions. Major challenges in achieving this goal are over 190 million people are unemployed globally, the proportion of informal unemployment is grater in developing countries, gender pay gaps and discrimination, covid-19 and automation and digitalization. Major initiatives undertake nationally and globally are ILO-Decent Work Agenda for promoting employment, MGNREGA, Start-Up India and Skill India for innovation and entrepreneurship, UNDP Inclusive growth Programs and ILO's Global Accelerator on Job and Social Protection for job recovery post pandemic.

Industry Innovation and Infrastructure: This goal aims to achieve resilient infrastructure, promote sustainable industrialization and foster innovation. It also supports technological progress. Main targets coming under this goal are; to develop quality, reliable, sustainable and resilient infrastructure, promote sustainable industrialization, accessing financial services to small scale industries, upgradation of infrastructure and industries, enhance scientific research, facilitate development for infrastructure sustainability and support technological development and innovation. These are essential because industry and infrastructure are the backbone of economic development. It enhances competitiveness, it helps to connect different parts of the world...etc. The main challenges in this area are the existence of outdated technologies and infrastructure in developing economies, higher level of digital divide, pollution and related climate change, non-availability of credit by the small enterprises and covid-19 pandemic. Main strategies that we can adopt to achieve this goal are to invest in green and digital infrastructure, promote the usage of efficient industrial technologies, strengthen Research and Development in Public Private Partnership mode, promote start-ups and small industries and finally promote technical education. Major initiative at global and national level for ensuring this are; UNIDO (United Nations Industrial Development Organization) for promoting inclusive and sustainable industrial growth, World Bank Infrastructure Project for developing nations to through transport, water and energy systems, India's Make in India and Digital India for promoting manufacturing and innovation related growth, Atal Innovation Mission (AIM) for entrepreneurship and technology innovation and Infrastructure for Resilient Island states (IRIS) initiative: for building sustainable infrastructure in vulnerable nations.

Reduced Inequalities: This goal aims to reduce inequality on the basis of gender, ethnicity, disability, economic background within the country and between the countries too. It aims to promote fairness inclusion, justice in social, economic and political systems. The main targets are to reduce income inequality, sustain inclusion for marginalized groups, eliminate discriminatory laws and practices, adopt fiscal and social protection policies, ensure equal opportunities especially in education, employment and leadership, facilitate safe migration and strengthen the representation of developing countries in global institutions. Major challenges in this area are growing income and wealth gaps, caste, gender and race-based discrimination, unequal accessibility in education, health and digital technology and limited representation from the part of developing nations. Major initiatives to tackle down the issues are UNDP's Human Development Reports which helps to track the global inequality, World Bank's Shared Prosperity Initiative, India's Affirmative Action especially for reservation for SC's, ST's and OBC's. MGNREGA and Global Compact of Migration 2018.

Sustainable Cities and Communities: This goal aims to provide and make cities and settlement safe, resilient and sustainable. This one focussed to give high quality of life, affordable housing and environmental sustainability for all residents. Main targets are to provide safe housing facilities, transportation facilities, inclusive urbanization, protecting the cultural and natural heritage, reducing the count of disaster affected people, ensuring air quality and waste management, ensuring accessibility of green and public spaces and finally protect positive economic, social, and environmental connection between rural, urban and peri-urban areas. The challenges in this fields include Urban poverty and slums, Traffic issues and pollution, waste disposal issues and sanitation issues, climate change and unequal access to housing and public services. This can be achieved by the following strategies; firstly, to invest in housing and slum upgradation projects, promote public transportation facilities, and cycling and walking, enhancing the participation in urban planning and governance, encouraging green building technologies and renewable energy usages, improve waste management and recycling systems and support disaster-resilient infrastructure and early warning systems. For achieving the same some initiatives were undertaken both at national level and global level, which includes UN- Habitat's New Urban Agenda in the year 2016 for sustainable urbanization, Smart Cities Mission in India to promote technology driven, eco-friendly and human oriented urban development. Atal Mission for Rejuvenation and Urban Transformation (AMRUT) for urban infrastructure and water supply, Swachh Bharat Mission for waste management and sanitation, and finally Paris Agreement for encouraging climate resilient urban planning.

Responsible Consumption and Production: It aims to maintain a sustainable lifestyle through efficiency in production, consumption, distribution and exchange. It is highlighting the importance of balancing national growth with environmental sustainability. The key points coming under this are implementing sustainable production and consumption practices, efficient utilization of natural resources, eliminate food wastage, reduce waste generation, encouraging the adoption of sustainable practices at the company level in production, promote sustainable public procurement, educating the customers for a better lifestyle and finally strengthening the technological capacity of developing nations for their sustainability. Major challenges faced by this goal are over consumption, industrial pollution and waste, unsustainable agricultural and energy practices and lack of awareness especially regarding green technologies. Major initiatives at national and global level includes, UN's 10-Year framework of Programmes for promoting sustainable production and consumption, ISO 14001 Certification, Swachh Bharat Mission, Extended Producer Responsibility for the proper management of waste and finally Plastic Management Rules in India for reducing the single usage plastics and encourage recycling.

Climate Action: It implies the immediate action to combat with climate change. This climate change may severely affect the country by rising temperature, melting ice caps, sea level rise...etc. So, the aim of this goal is to strengthen the resilience and adaptation to climate related issues and the measures to correct the same inclusion in national policies and planning. Major thrust area covers the strengthening of resilience and adaptive capacity, integrate climate change measures in policy making, improve education and awareness about climate change, implement UN Framework Convention on Climate Change (UNFCCC) and Paris Agreement and promote Climate Finance for the developing economies. The challenges in this area include rising global temperature, frequent floods, droughts, cyclones and wildfires, deep dependence on fossil fuels, insufficient climate finances and deforestation and loss of biodiversity. Initiatives to achieve this goal are Paris Agreement, UNFCCC (United Nations Framework Convention on Climate Change, IPCC

Reports, India's National Action Plan on Climate Change (NAPCC) for solar energy, sustainable agriculture and green transportation and finally International Solar Alliance (ISA) for promoting the use of solar energy.

Life Below water: It aims to conserve the sustainability in use of oceans, seas and marine resources. This is possible by reducing marine pollution, manage and protect marine and coastal ecosystems, control fishing practices, conserving at least 10% of coastal and marine areas, prohibit unnecessary subsidies, increase Research and Development in Ocean Conservation, increase the accessibility of marine resources for small scale fishers and support the developing countries to use the marine resources sustainably. This is very important in the sense that about more than 50% of oxygen were produced by oceans, and carbon dioxide absorption also done by these oceans. It provides livelihood to coastal communities, it acts as a source of food, medicine and energy. And healthy oceans enhance climate stability also. Major challenges for achieving the goal includes, plastic pollution, overfishing, ocean acidification, loss of mangroves and coral reefs and marine habitat destruction. Major initiatives to cover this goal at global and national level includes UN Decade of Ocean Science (2021-2030) for promoting global scientific collaboration for ocean sustainability, Global Ocean Treaty (2023) to protect marine diversity, FAO Code of Conduct for Responsible Fisheries, India's Sagarmala Project and Swachh Sagar, Surakshit Sagar Campaign (India) for cleaning up coastal region.

Life on Land: Aims to protect, restore and promote sustainable use of terrestrial ecosystems. Main targets include Ensure conservation and restoration of terrestrial and freshwater ecosystems. Promote sustainable forest management and halt deforestation. Combat desertification and restore degraded lands. Ensure conservation of mountain ecosystems and their biodiversity. End poaching and trafficking of protected species. Integrate ecosystem and biodiversity values into national policies and planning. Increase financial resources for conservation and sustainable land management. Major challenges faced by this objective are: Deforestation due to logging, agriculture, and urban expansion. Loss of biodiversity, with many species facing extinction. Desertification caused by unsustainable farming and overgrazing. Land degradation from mining and industrial pollution. Wildlife trafficking and poaching, especially in developing regions. Major initiatives include UN Convention to Combat Desertification (UNCCD): Focuses on restoring degraded land. Convention on Biological Diversity (CBD): Promotes global biodiversity conservation. Bonn Challenge: Aims to restore 350 million hectares of degraded land by 2030. India's National Afforestation Programme and Green India Mission: Promote Forest restoration. Project Tiger and Project Elephant (India): Protect key wildlife species and habitats.

Peace justice and strong institutions: Aims to promote peaceful and inclusive societies featured with justice, effective, accountable, and transparent institutions at all levels. Main targets include reduce all forms of violence, end abuse, exploitation, trafficking, and torture. Promote rule of law, and equal access to justice, reduce corruption and liberty, develop effective, accountable and transparent institution. Ensure responsive, inclusive and participatory decision making. Protect fundamental freedoms, strengthen national institutions and promote non-discriminatory laws and policies. Major challenges encountered by this goal are conflicts and wars, corruption, weak judicial systems, human rights violations and political instability and lack of transparency. Various initiative was also adopted to accustomed to this goal; United Nations Peacekeeping Missions: Promote global peace and security. UN Office on Drugs and Crime (UNODC): Works to combat corruption and organized crime. Transparency International: Monitors corruption worldwide. Right to Information Act (India): Increases government transparency.

Lokpal and Lokayukta Acts (India): Address corruption and promote accountability.

National Human Rights Commission (NHRC): Protects and promotes human rights.

Partnership for the goals: Aims to vitalize the Global Partnership for Sustainable Development. The main objectives include Mobilize financial resources for developing countries through aid, investment, and domestic revenue. Promote technology transfer and innovation for sustainable development. Enhance capacity-building in developing nations for policy implementation. Promote fair and open trade under the World Trade Organization (WTO). Encourage sustainable debt management for poor and vulnerable countries. Enhance global data monitoring and ensure access to reliable statistics. Strengthen multi-stakeholder partnerships at national and international levels. Challenges encountered while making this goal success are Unequal access to finance and technology. Weak international cooperation. Debt burden of developing nations, global trade barriers and lack of data and transparency. Major initiatives include UN Global Compact, Addis Ababa Action Agenda for financing Sustainable development, Paris Agreement. NITI Ayog and International Solar Alliance.

Conclusion

Sustainable Development Goals form a holistic framework to achieve peace, prosperity, and environmental sustainability for all. Achieving these goals requires collaborative partnerships, responsible policy actions, and community participation. Human health remains the central thread connecting all 17 SDGs, emphasizing that economic growth and environmental protection must go hand in hand. By fostering equity, innovation, and sustainable practices, the world can move toward a future that ensures dignity, opportunity, and well-being for every individual.

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