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SUSTAINABLE LIFESTYLE

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Abstract: In an era characterized by escalating environmental concerns and an urgent need to combat climate change, the embrace of sustainable lifestyles has emerged as a pivotal pathway toward fostering a more harmonious coexistence with our planet. This review endeavors to conduct a thorough evaluation of sustainable lifestyles, encompassing their diverse dimensions, impacts, challenges, and potential for widespread adoption. Initiating with an examination of the foundational principles underpinning sustainable living, this review elucidates the core tenets that steer individuals towards making more eco-conscious choices. It scrutinizes the intricate interplay between personal behaviors, societal norms, and systemic structures, shedding light on the interconnectivity of sustainable lifestyles within broader socio-environmental contexts. A pivotal facet of sustainable living pertains to consumption patterns and their implications on environmental sustainability. This review rigorously assesses various realms of consumption, spanning from food, clothing, transportation, to housing, offering insights into strategies for diminishing ecological footprints and embracing circular economy models. Furthermore, the review delves into the psychological and sociocultural dimensions of sustainable lifestyles, unraveling the drivers and barriers that influence individual choices. It also contemplates the role of education, awareness campaigns, and policy interventions in shaping societal attitudes towards sustainability. Going beyond individual endeavors, the review probes into the potential of collective initiatives, such as community-based sustainability projects and eco-friendly urban planning, in nurturing more sustainable ways of life. It emphasizes the significance of collaborative endeavors in catalyzing positive environmental outcomes on a broader scale. While extolling the merits of sustainable living, the review does not shy away from confronting the challenges and compromises inherent in its adoption. It critically examines issues such as accessibility, affordability, and the imperative for systemic transformations to facilitate a shift towards more sustainable societies. In conclusion, this review furnishes a comprehensive assessment of sustainable lifestyles, elucidating their multifaceted nature and potential to contribute to a more resilient and balanced planet. By providing a thorough understanding of the various dimensions and implications of sustainable living, this review aims to educate and motivate individuals, communities, and policymakers in their pursuit of a more sustainable future.

Index Terms: Sustainability, Sustainable living, Environmental impact, Climate change, Circular economy, Systemic transformations, Resilience, Balanced planet, Green lifestyle, Low-carbon living, Eco-friendly practices.

1 INTRODUCTION

The enduring objectives of numerous societies revolve around growth and development. However, a fundamental question arises: How can we attain development? Post-World War II, the pursuit of enhancing social and economic conditions became a paramount goal. Consequently, developed nations sought pathways to development and innovation through economic progress, equity, and social justice. From this perspective, development is achieved when both social and economic progress are sustained. In recent decades, the concept of sustainable economic development has garnered increasing attention within academic circles. Fields spanning social, political, and economic sciences, alongside biosciences, have honed their focus on sustainable development and its determinants. Sustainable development entails a systematic approach aimed at preserving renewable and finite resources on Earth [1]. The widely accepted definition of sustainable development posits: "Sustainable development is development which meets the needs of the present, without compromising the ability of future generations to meet their own needs"

[2]. Under this definition, a range of indicators can be envisioned for sustainable development, encompassing poverty, health, education, demographic attributes, environmental and natural elements, economic progress, climate, national production, as well as happiness or well-being. Conventionally, economic, social, and environmental advancements emerge as pivotal determinants of sustainable development, with a profound interrelationship among them as shown in Fig 1.

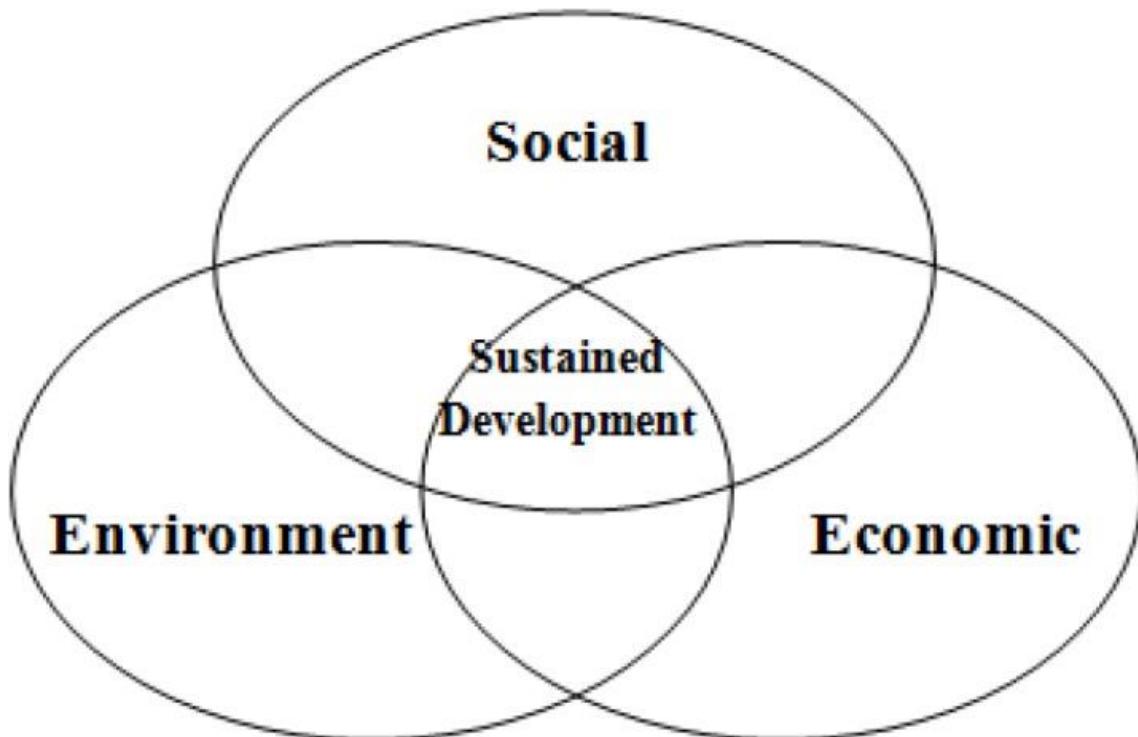


FIG. 1. KEY

PREDICTORS OF SUSTAINED DEVELOPMENT. [1]

Shifting towards sustainable lifestyles involves examining our way of life as the initial step in understanding the environmental impact of everything we purchase and utilize in our day-to-day routines. Simultaneously, it aims to ensure a high quality of life for all. Adopting a lifestyle-centric approach directs our attention to the behaviors and choices made by individuals and households. While sustainable lifestyles encompass a comprehensive understanding of the intricate interplay of our consumer decisions and actions, sustainable consumption emerges as a consequential outcome of what we choose to consume [3].

2 CONCEPT OF SUSTAINABLE LIFE-STYLE

Sustainable lifestyles refer to the routines and choices individuals make in order to associate with and distinguish themselves from others. These lifestyles aim to: fulfill fundamental requirements, enhance overall well-being, reduce the utilization of natural resources, and minimize waste and pollutants over the entire life cycle. Importantly, they do not compromise the needs of future generations. On the other hand, sustainable consumption pertains specifically to the process of acquiring products and services, using them, and disposing of them responsibly. In contrast, sustainable lifestyles encompass a broader spectrum of activities including social interactions, leisure pursuits, sports, and educational endeavors. These lifestyles encompass, but are not restricted to, material consumption [3]. The concept of sustainable living emerged from the definition of sustainable development, first articulated in the 1980s in the Brundtland Commission's seminal report 'Our Common Future'. In 2015, the United Nations further advanced this notion by adopting the Sustainable Development Goals, a global initiative aimed at combating climate change and safeguarding the environment with a target to achieve these goals by 2030. The ultimate

objective is to ensure the long-term stability of both the economy and the environment, a feat attainable only through the thorough integration and recognition of economic, environmental, and social considerations in the decision-making process.

Embracing a sustainable lifestyle is pivotal in curbing greenhouse gas emissions. While some individuals have already made meaningful strides towards sustainable living by making modest yet impactful adjustments to their routines, there are still countless others who stand to benefit from similar transformations. This article seeks to inspire readers to learn about, explore, and commit to sustainable practices, while fostering a love for nature and the preservation of its finite resources through straightforward endeavors [4].

3 ATTITUDES AND BEHAVIOR FOR SUSTAINABLE LIFESTYLE - LIFE PATTERNS

In our swiftly changing world, the call for sustainable living is more pressing than ever. Our everyday decisions, spanning consumption habits to our interactions with the environment, wield significant influence over the planet's sustainability. This introduction lays the foundation for a thorough examination of the nuanced interplay between attitudes and behaviors, and their role in nurturing sustainable lifestyles and life patterns. By delving into the core motivations and actions that propel sustainable living, we forge a path towards a more balanced relationship with our surroundings, ensuring a brighter future for generations ahead [5].

Table 1. Attitudes and behavior for sustainable lifestyle - life patterns

Some issues of sustainable lifestyle	Sustainable mindset: Attitudes and behavior for sustainable lifestyle - life patterns
Water	Sustainable water - Use water more efficiently; Reduce use of water (e.g., car washing, lawn sprinklers, dish washers); Increasing awareness and behavior change for water conservation;
Food and products	Learning about healthy eating habits; Cooking and managing a sustainable & healthier diet; Increasing proportion of vegetables, fruit, and grains in diet (eating a balanced diet); Choosing foods grown in season (in country of origin); Purchase locally grown produce; Reduce levels of highly processed food; Wasting less food
Health and society	Growing awareness and better information on healthy diets and lifestyles (e.g., labeling); Increased availability and demand for local, ecological and seasonal food; Initiatives that promote walking, cycling and limit cigarette smoking in buildings; Increasingly successful efforts to integrate health and equity considerations into policy making and urban planning
Energy	Purchase energy efficient appliances and do not leave appliances in standby mode; Increasing awareness and behavior change for energy conservation; Zero carbon - Make buildings more energy efficient and deliver all energy with renewable technologies.
Transport	Sustainable transportation - Encourage low carbon modes of transport to reduce emissions, reducing the need to travel; Strategic urban planning to decrease mobility needs and make sustainable modes of transport safer and accessible; Increasingly successful efforts to stimulate modal shifts toward walking, cycling or public transportation; Growth in car sharing services that show a shift away from private ownership to collaborative consumption; More efficient transportation technologies, such as

	electric vehicles;
Jobs	Sustainable jobs: Create bioregional economies that support fair employment, inclusive communities, and international fair trade.
Purchasing	Purchasing from a local store; Purchasing products that have a reduced environmental impact; Choosing eco-products & services; Using labelling to choose most energy & water efficient products; Choosing fairly traded, eco labelled and independently certified food, clothing, etc.; Borrowing, hiring or sourcing second-hand or recycled
Consumption	Efficient consumption (wasting less), different consumption (shifts to high quality goods and services), sufficient consumption (reducing material consumption), collaborative consumption (sharing, swapping, trading, etc.)
Culture and heritage	Revive local identities and wisdom; support and participate in the arts
Waste	Extending the life of things (to minimize waste); Maintaining & repairing (instead of replacing); Recycle household waste; Dispose of toxic materials safely; Compost organic waste; Zero waste - Reduce waste, reuse where possible, and ultimately send zero waste to landfill

4 SUSTAINABLE WASTE MANAGEMENT

One of the most distinctive challenges in sustainability revolves around managing material flows, particularly solid waste, often referred to as garbage. This poses a formidable task for both communities and government officials. A casual observation of New York City's public recycling bins provides a glimpse into the considerable journey the city must undertake to approach the ambitious "zero waste" standard set by places like San Francisco. Paper bins are filled with bottles, while the bottle bins contain an assortment of unsorted waste. Nevertheless, New York City has demonstrated in the past that progress is attainable. For instance, indoor smoking in public areas has been successfully eliminated, and New Yorkers have learned to adhere to alternate side of the street parking regulations, with some even mastering the art of not jaywalking. This suggests that waste disposal behaviors can undergo transformation. It is more plausible that we will refine automated waste sorting processes, allowing for further subdivision of waste streams during processing. Zero waste constitutes a fundamental aspect of the broader concept of a circular economy, wherein all waste generated from consumption is repurposed as inputs for new production. Although some degree of leakage is inevitable even in the most tightly managed circular production systems, the objective is to transition from the linear model of production-consumption-waste towards a more circular framework. I view "zero waste" not as an easily achievable operational objective, but rather as a guiding model and aspiration. It serves as a framework for reconsidering resource utilization and waste management, rather than an absolute endpoint. Embracing it necessitates a shift in paradigm, a fresh perspective on consumption, and a reevaluation of our approach to waste [6].

5 SUSTAINABLE SOCIETIES

Societies that foster sustainable living, accommodating 8,000 kg per person, are those that harmonize environmental sustainability with principles of health, well-being, and social fairness. These societies adeptly navigate complex policy dilemmas, addressing economic vulnerabilities, high unemployment rates, safeguarding health and social services, and prioritizing environmental preservation. They strive for inclusivity and draw strength from multiculturalism, ensuring well-being for all, irrespective of socio-economic status, ethnicity, age, or gender. Compelling narratives, disseminated through education and

media, are essential in promoting sustainable living from an early age. Education, accessible to all, must inherently include a focus on sustainability thinking and reasoning. Sustainability should serve as the overarching framework guiding all societal actors, from policy makers to governing bodies, and should exhibit resilience in the face of evolving political perspectives. Fundamental principles of environmental sustainability, health, and social equity should permeate every level of society. Arguments advocating for an integrated and holistic approach to development should be based on a comprehensive understanding of the societal costs and benefits, particularly from a health and well-being standpoint, arising from policies and interventions. Impact assessment tools play a crucial role in monitoring well-being and health. An immediate action that stands to make a significant impact is the expansion of support for health promotion programs in schools and workplaces, encouraging healthy diets and physical activity in tandem with sustainable development practices. Furthermore, there should be concerted efforts to formulate and endorse local policies and programs that enhance environmental conditions in marginalized areas. Policies and safety nets should be tailored to protect the most vulnerable groups, with a focus on children and the elderly in low socio-economic strata, who are most susceptible to environmental health risks. Support for workplace policies and programs in public institutions and corporations is crucial in the creation of sustainable work environments, which encompasses both sustainable employees and provisions for outdoor and teleworking facilities. At the local level, there must be endorsement for community programs that prioritize the enhancement of health and quality of life in the most challenged neighborhoods. Through initiatives like sports programs in schools and community centers, we can bolster social cohesion in economically disadvantaged areas. The development of health prevention and promotion efforts can lead to improved long-term health outcomes and reduced costs for the treatment and care of chronic diseases, fostering sustainable lifestyles and health services [7].

6 POLICY INITIATIVES FOR LARGE-SCALE CHANGES

The conditions required to foster sustainable lifestyles often clash with the prevailing social and economic systems. Assumptions of boundless economic growth, prioritizing short-term individual gains over long-term societal objectives, and the widespread production of low-quality goods all pose significant challenges to sustainability.

In essence, formulating policies that truly advocate for sustainable lifestyles is a formidable task. To date, only a handful of policy strategies and tools have been devised specifically to support sustainable lifestyles, with most of them limited to the dissemination of information. Nevertheless, policies promoting sustainable consumption and production (SCP) have been in existence for several decades. SCP policies directly or indirectly pertain to how individuals lead their lives—their lifestyles [11].

7 POLICY INSTRUMENTS FOR SUSTAINABLE LIFESTYLES

Instruments for promoting sustainable consumption and production (SCP) are commonly categorized into administrative, economic, and informational measures. Within each category, distinctions can be made between mandatory and voluntary approaches [11].

7.1 Administrative Instruments

Administrative tools, like outright bans, are infrequently employed in policies related to sustainable consumption and lifestyles. Implementing such interventions could potentially undermine the core tenets of a market economy and are therefore unlikely to garner political acceptance. There are, however, exceptions, such as restrictions on products that cause disturbances or have adverse health and substantial environmental effects. Instances of such products include jet skis, tobacco, drugs, chemical substances, or marketing targeted at children [10].

7.2 Mandatory Economic Instruments

Mandatory economic instruments like taxes and fees, are seldom met with enthusiasm from businesses or the general public. The incorporation of environmental expenses into economic considerations has been a topic of political discussion for over a decade, yet substantial progress has been made in only a few countries [10].

7.3 Information Instruments

Information instruments compass a limited number of compulsory programs for providing environment-related data on products, and their relevance to sustainable lifestyles is somewhat restricted. One pertinent mandatory informational measure is the European and national advertising regulations, which oversee the usage of environmental statements and specific marketing terminology, such as "organic" [10].

8 CONSUMING SUSTAINABLY: BARRIERS AND CHALLENGES

Engaging with goods and related products that fulfill essential requirements and enhance overall well-being, all while minimizing the utilization of natural resources and hazardous materials, as well as reducing waste and pollution throughout their lifespan, to ensure the well-being of future generations is not compromised. Engaging in sustainable consumption, whether through maintaining or reducing consumption levels, is a complex and non-linear process. People who aspire to embody sustainability often encounter challenges as they seek to implement their own vision of it. These challenges arise from the unpredictability of their surroundings and personal circumstances, leading to conflicts between their sustainable beliefs and their actual practices. Contextual factors can inadvertently lock consumers into unsustainable consumption patterns. The structure of the retail landscape and societal norms may present barriers, limiting access to sustainable options due to factors like restricted availability, higher costs, or specific store characteristics. Additionally, normative influences from peers, policies, and regulations can also hinder consumers in their pursuit of sustainability ideals [8].

9 FOSTERING SOCIAL INNOVATION FOR SUSTAINABLE LIFESTYLES

Social innovation entails the introduction of fresh approaches, concepts, initiatives, and entities that address societal requirements within the framework of sustainable development. The Task Force uncovered commendable instances of grassroots innovation that enhance people's well-being. Strikingly, these initiatives remain relatively unknown to the wider populace. The transition towards sustainable lifestyles has been a subtly burgeoning global movement, gradually gaining traction in more conventional channels. The recently launched website, www.ideasforchange.tv, contends: "Many of us - from individuals to politicians, entrepreneurs, and organizations - have ideas about potential advancements. These are suggestions that could pave the way forward. However, we often don't have the opportunity to meet, interact, or collaborate. "Several projects from the Task Force successfully sparked and facilitated connections among groups of individuals. These connections enabled people to witness others who shared similar experiences and had also chosen to modify their behavior. "Creative Communities for Sustainable Lifestyles" gathered and disseminated promising examples of sustainable ways of life worldwide. For inspiring scenarios, visit <http://www.sustainable-everyday.net>. The UNEP/UNESCO YouthXchange Program leverages and links local NGOs in 22 countries, fostering a youth movement across regions, with support from the Task Force on Sustainable Lifestyles: www.youthxchange.net. Social innovation can be instigated either by communities or guided by policy. There is a growing call for a new approach to driving consumer change, shifting away from merely raising awareness to relying on default policy measures that inherently promote sustainability. This might include affordable, convenient, and comfortable public transit as an alternative to private vehicles. Such policies would necessitate consumers to actively opt out of sustainable consumption practices, like recycling, rather than simply dictating what they should do [9].

10 Transformation towards Sustainable Lifestyles 2050

How can we transition towards more sustainable lifestyles? Our interactions with a diverse group of experts and practitioners have indicated that it necessitates a fundamental shift in our way of thinking, our values, and our actions. This roadmap outlines strategies to address crucial challenges. The primary objective is to thrive within the finite space and resources offered by our planet, all while enhancing our quality of life and well-being. These parameters form the framework within which Sustainable Lifestyles must be crafted. It's important to recognize that there isn't a one-size-fits-all approach; lifestyle choices are diverse and endless. Consequently, there's no universal solution or quick fix. A sustainable lifestyle, in general terms, entails living in a way that honors the limitations of our environmental resources, prioritizes the well-being and health of all individuals, and is sustainable for future generations [7].

11 THE FUTURE OF THE SUSTAINABLE LIFESTYLE

We've already set in motion the transformation of our energy, consumption, and waste systems. Envisioning ongoing progress is entirely conceivable, but it hinges on people being positively drawn towards a sustainable way of life rather than being penalized for their inclination towards unsustainable consumption habits. This doesn't call for a rigid, one-size-fits-all approach to living. What unites those embracing a sustainable lifestyle is the understanding that consumption serves as a means to an end, not the end itself. The true victor isn't the one amassing the most possessions, but the one leading the most enriching life; however, they personally define it. The crux of sustainable living appears to lie in the cultivation of a sustainable culture. Apart from that we are progressively mastering the art of sustainable living in our day-to-day routines. This encompasses an increased reliance on bikes and walking, a reduction in smoking, and a heightened awareness of our dietary choices. Our cities are actively implementing green infrastructure to mitigate the impact of flooding on our streets and waterways. A shift is underway, particularly among young people, valuing experiences over material possessions like large homes and flashy cars. More of our time is spent engaging in low-impact consumption of media, entertainment, and social interactions via smartphones. The younger generation is also increasingly mindful of the origins of their food and its effects on personal health and the well-being of other living organisms. The ways we allocate our time and engage in daily activities are bound to evolve, driven by human creativity and innovation. However, what remains uncertain is whether our inventiveness will adequately consider the well-being of our natural systems. Yet, the growing cohort of individuals dedicated to adopting a sustainable lifestyle serves as a reassuring force, ensuring that this new chapter of economic evolution will not mark the final one [6].

12 CONCLUSION

In an era defined by pressing environmental challenges and the urgent need to combat climate change, the adoption of sustainable lifestyles emerges as a paramount pursuit. This comprehensive review has traversed the intricate landscape of sustainable living, shedding light on its multifaceted aspects and its potential to foster a more harmonious rapport with our planet. Starting from the theoretical underpinnings that steer eco-conscious decisions to the critical assessment of consumption patterns and their impact on environmental well-being, we have witnessed the intricate interplay of individual behaviors, societal norms, and systemic frameworks within the broader socio-environmental context. The exploration of psychological and sociocultural elements has further unveiled the nuanced interplay of motivators and barriers influencing personal choices toward sustainability. Education, awareness initiatives, and policy interventions have been emphasized as pivotal drivers in shaping societal perspectives on sustainable living. Additionally, the investigation into collective endeavors, such as community-based projects and environmentally conscious urban planning, has exemplified the transformative power of collaborative initiatives in nurturing more sustainable ways of life. While extolling the merits of sustainable living, it remains imperative to address the challenges that loom ahead. Matters of accessibility, affordability, and the necessity for systemic shifts must be tackled to facilitate a widespread transition toward more sustainable societies. In conclusion, this review serves as a guiding compass for individuals, communities, and policymakers alike, providing a comprehensive grasp of the diverse dimensions and implications of sustainable living. It serves as a clarion call, urging us all to embark on a shared journey toward a future where equilibrium, resilience, and environmental stewardship form the core of our existence. Together, we can pave the way toward a more sustainable and flourishing planet for generations to come.

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