Assessing the Effectiveness of Community-Based Initiatives to Save Environment: An Empirical Study DOI: https://doi.org/10.52783/tojqi.v11i2.9984

> Turkish Online Journal of Qualitative Inquiry (TOJQI) Volume 11, Issue 2, June 2020: 645-651

Assessing the Effectiveness of Community-Based Initiatives to Save Environment: An Empirical Study

Deepak Kholiya

Professor, Department of Environmental Science, Graphic Era Hill University, Dehradun, Uttarakhand India 248002

Abstract

This abstract evaluates community-based initiatives that aim to preserve the environment. Community members initiate and implement these programs or projects to address environmental concerns, promoting sustainable practices and improving overall environmental health. Assessing the effectiveness of such initiatives is crucial in determining their impact on the environment and communities. It helps identify successful strategies for replication and provides insight into challenges during implementation. Community-based initiatives rely on community members' participation and collaboration to achieve their goals. It involve waste reduction, conservation of natural resources, and promotion of environmentally-friendly practices. Successful initiatives require collaboration between government agencies, non-governmental organizations. Community members needs to share resources and consider different perspectives leading to more comprehensive and sustainable solutions. Measuring the initiatives' effectiveness involves methods like monitoring environmental indicators, evaluating community participation, and assessing impact on well-being. These methods determine the initiative's success and areas requiring improvement. **Keywords**- Community-based environmental initiatives, Community participation measure.

Introduction

Community-led conservation is an approach aimed at addressing ecological predicaments such as loss of biodiversity, climatic changes, and socioeconomic disparities, while concurrently benefitting both humanity and the environment. East, (2016) This method entails the engagement of local communities in environmental decision-making procedures. Community-based enterprises, individuals and groups collaborate to encourage sustainable practices and ameliorate the general health of the environment. Conrad & Hilchey, (2011) public involvement in environmental regulation and decision-making can take on various forms. One way is through direct participation, which involves the community's consultations regarding individual planning or pollution control petitions. This strategy endows members of the community with the ability to express their apprehensions and viewpoints, ultimately allowing them to directly sway determinations that pertain to their surroundings. Additionally, seeking legal recourse through judicial review is yet another method of direct engagement that endows individuals with the power to hold those in positions of authority accountable for environmental injuries or flawed policies. Democracy represents yet another avenue for public participation. Local communities' elect officials who in turn create environmental policy and make decisions at the national level. By way of their elected

Deepak Kholiya

representatives, citizens can champion their environmental concerns and affect the evolution of environmental policies that align with the requirements and values of the community. Effective community-based conservation necessitates the active participation of all concerned denizens at the pertinent level. Such an approach acknowledges the universality of environmental concerns and the need for concerted endeavors to devise and implement efficacious solutions.

According to Alexander, Andrachuk, and Armitage (2016) community-based conservation initiatives, by promoting active engagement and cooperation, can establish a collective sense of responsibility for the environment and cultivate a culture of sustainability. Access to precise and current information constitutes a critical facet of public participation in environmental decisionmaking processes. It is imperative that citizens have access to such information to make enlightened decisions and engage fruitfully. At the national scale, it is imperative that the citizenry is granted access to data pertaining to the biosphere. Retained by governmental institutions, encompassing details concerning the current state of the ecosystem. Conceivable hazards of environmental nature, and projected guidelines with regards to ecological concerns. Moreover, provisions must be made to ensure that the public is able to participate in every facet of the decision-making process. This necessitates enabling members of local communities to have their say on matters concerning the formulation of ecological policies and strategies. As well as providing them with avenues to participate in the implementation and supervision of these policies. Community-centered conservation is a highly auspicious methodology for tackling ecological predicaments, while simultaneously fostering sustainable customs and benefiting both humanity and nature. The fundamental crux of this approach is public participation, which may manifest itself in manifold forms such as direct participation, judicial review remedies, and democracy. In order for community-centered conservation to be efficacious, all affected citizens must be involved at the pertinent level and have access to precise and current information regarding environmental concerns. By promoting active involvement and cooperation, community-cantered conservation endeavours can instil a sense of sustainability and communal responsibility towards the environment.

Literature review

Community-centered preservation is a comprehensive methodology that acknowledges the interconnectedness of ecological and societal systems. This technique perceives the welfare of humanity and the environment as interdependent and endeavors to accomplish sustainability by balancing the demands of both domains. This has recently been the subject of significant consideration, and for a justifiable reason. Duffy & Jonassen, (2013) by recognizing the necessity to equilibrate environmental and societal requisites, community-cantered preservation can prompt and reap benefits from the more widespread adoption of transformative, adequacy-focused frameworks such as doughnut economics, convivial conservation, and Buen Vivir. The existing economic models are deemed unsustainable due to their prioritization of growth above the well-being of individuals and the planet. Doughnut economics, on the other hand, presents a novel economic model that strives to achieve a balance between economic expansion and social and environmental sustainability. Convivial conservation, a framework aimed at cultivating social ties and bolstering local communities, and Buen Vivir, which prioritizes the significance of indigenous wisdom and principles, are two models that complement this approach. Community-based conservation can

Assessing the Effectiveness of Community-Based Initiatives to Save Environment: An Empirical Study

embrace a more comprehensive perspective by adopting an approach that considers both human and environmental needs.

Mueller et al., (2015) cattle bunching is a practice that involves consolidating cattle herds in one area for grazing, rather than allowing them to roam freely. This approach yields benefits in several ways. First, it can help break up hard soil and allow for regeneration of unused land. Second, it can lead to more efficient land usage as cattle are concentrated in one location, which maximizes grazing potential and enables better utilization of available resources. After the cattle have grazed through one location, they are moved to another location, providing the previously grazed area with the opportunity to rest and regenerate. In essence, the benefits of cattle bunching are multifaceted.

According to Grandin (2014) primarily, it enhances land use efficiency, allowing for optimal resource utilization and grazing potential. Furthermore, it can break up hardened soil and promote the restoration of unused land. This is accomplished by grouping the cattle in one area for grazing rather than allowing them to roam freely. Following their grazing in one area, the cattle are relocated to another location, enabling the previously grazed area to rest and regenerate. Conservation organizations are better equipped to ensure the effectiveness and sustainability of their initiatives when community members are involved in their implementation and management. To accurately gauge the effectiveness of community-based practices, it is essential to look beyond their immediate impact and assess their wider social and economic repercussions. For instance, do practices such as cattle grouping provide economic incentives for local farmers? Do they encourage community involvement and promote social cohesion? By answering these questions, conservation organizations can gain a better understanding of the far-reaching effects of their land management practices and make more informed decisions about their future. Access to information stands as a vital tenet of every democratic society, providing the citizenry with a means to effectively exercise their fundamental rights, which serve as the bedrock of a functional democracy.

Jongbloed, Enders, & Salerno, (2008) found that education plays a central role in amplifying the agency of diverse communities and inculcating an understanding of the significance of conservation endeavors. Through the dispensation of educational materials and training programs, communities can acquire knowledge and competencies in managing natural resources in a sustainable manner, while simultaneously cultivating alternative livelihoods that curtail environmental degradation. Additionally, conservancies are actively spearheading new initiatives aimed at promoting conservation. For example, some conservancies have initiated cash crop cultivation as a means of generating income. This approach serves to diversify the community's income sources and lessen their reliance on natural resources.

Oerke et al., (2012) cash crop cultivation can also facilitate the restoration of degraded lands, a crucial step in conservation efforts. The process of deliberative participation entails the inclusion of the public in determining general policies and strategies before advancing to specific proposals. This approach is considered a vital component of effective community-based initiatives to safeguard the environment.

Polasky et al., (2008) technique that has garnered widespread attention in recent times involves the adoption of novel land management methodologies. This, in turn, mitigates the need for

Deepak Kholiya

agriculturists to clear additional land in order to cater to their livestock. Furthermore, the practice of clustering cattle together boasts notable ecological advantages. The congregation of cattle in a particular area hinders excessive grazing, which has the potential to result in soil erosion and deterioration. Moreover, by permitting the land to lay fallow and regenerate in between grazing cycles, the soil is capable of accumulating nutrients, which ultimately leads to the growth of healthier and more productive vegetation. The triumph of community-cantered initiatives like cattle clustering is dependent upon the participation and coordination of local communities. In this regard, the significance of augmenting access to environmental data cannot be overstated. Consolidating the tenets of these frameworks into community-based preservation approaches can usher in a more enduring future that upholds the welfare of both humanity and the earth.

Moldan, Janoušková, & Hák, (2012) proactive measures are being implemented by preserves worldwide to guarantee the longevity and sustainability of their territories. The reason behind this is that ecological information plays a critical role in ensuring a fair balancing of competing interests, and sufficient representation of public interest in decision-making processes. The availability of information on the repercussions of industrial operations is an indispensable element in taking relevant factors into account when arriving at determinations that affect the environment. It allows decision-makers to make astute decisions that take into consideration the long-term ramifications of their choices, and ultimately results in superior outcomes for both the environment and society. This is especially momentous, given the escalating apprehension over the adverse effects of industrial activities on the ecosystem, like contamination, deforestation, and climate change. Furthermore, facilitating access to environmental information is imperative in promoting accountability and transparency in the decision-making process.

Otto et al., (2013) by disseminating information to the public, decision-makers are held accountable for their actions, thereby enabling meaningful discussions on environmental issues. This facilitates increased public participation in decision-making, leading to greater trust between the public and decision-makers. In recent years, community-led initiatives have emerged as an efficacious means of promoting environmental conservation. These initiatives entail the collaboration of individuals and groups to tackle local environmental challenges. The nature of these initiatives varies, ranging from community-wide clean-up campaigns to tree-planting endeavors and recycling programs. The effectiveness of these initiatives has been demonstrated in enhancing environmental awareness and action, and has been instrumental in addressing environmental problems globally. It is vital to assess the effectiveness of community-led initiatives to comprehend their impact on the environment. The remuneration of pastoralists who have lost their livestock due to predation or disease outbreaks serves as a crucial incentive for the pastoralists to tolerate the presence of wildlife on their land, ultimately benefiting conservation efforts. The compensations are also employed to bolster educational support for conservancy members. Deliberative participation involves the creation of a framework for the engagement process, which encompasses the identification of stakeholders, defining objectives, and setting communication and decision-making guidelines. This stage builds trust amongst the stakeholders and guarantees everyone has a say in the process.

Armitage, D. (2005) assessing the effectiveness of community-based environmental initiatives is another pivotal aspect of deliberative participation. This necessitates an exhaustive appraisal of the results and the extent to which they have achieved the set objectives.Community-based initiatives must be evaluated in terms of their efficacy in accomplishing their objectives and their impact on

Assessing the Effectiveness of Community-Based Initiatives to Save Environment: An Empirical Study

both the environment and the community. To gauge this, it is necessary to consider the extent to which such initiatives have raised environmental awareness, spurred the community into action, and contributed to natural resource conservation. The success of these endeavors is heavily reliant on the participation of local communities, who bear the responsibility of conserving and managing natural resources in their respective domains. An example of a community-based organization that has emerged as a pivotal player in conservation efforts is a conservancy. One of the most significant advantages of a conservancy is that it serves as a means of generating income for local communities, and any proceeds it generates are shared among its members. This, in turn, assists in mitigating poverty and enhancing the livelihoods of conservancy members.

The broader implications of community-based initiatives must also be considered, including their impact on social and economic factors beyond the intended outcome. Measuring the efficacy of community-based initiatives can be achieved through key performance indicators (KPIs). KPIs can assist in tracking progress toward specific targets, such as decreasing carbon emissions, enhancing air and water quality, and increasing the utilization of renewable energy sources. KPIs can also help identify areas that necessitate additional effort or resources to achieve desired outcomes.

Objective

To measure the assessing the effectiveness of community-based initiatives to save environment

Methodology

This research is a descriptive type that collected data from 181 participants, including specific community or communities where the community-based initiatives are being implemented. This could be a neighbourhood, town, city, or even a specific group of individuals who are actively engaged in environmental conservation efforts. The data were analyzed using a checklist question, which required respondents to answer with either a "Yes" or a "No" for each question.

SL	Assessing the effectiveness of	Yes	%	No	%	Total
No.	community-based initiatives		Yes		No	
1	Assessing the effectiveness of community-based initiatives to save the environment requires establishing clear and measurable objectives	143	79.01	38	20.99	181
2	Effective assessment involves collecting relevant data to evaluate the impact of community-based initiatives.	171	94.48	10	5.52	181
3	Engaging with community members & environmental organizations is crucial for assessing the effectiveness of community-based initiatives.	133	73.48	48	26.52	181
4	Developing a robust monitoring and evaluation framework is essential for	167	92.27	14	7.73	181

Data Analysis and Interpretations:

Table 1 Assessing the effectiveness of community-based initiatives to save environment

Deepak Kholiya

	assessing the effectiveness of community-based initiatives.					
5	Community-based initiatives often aim to achieve long-term environmental sustainability.	153	84.53	28	15.47	181
6	Evaluating the cost-effectiveness of community-based initiatives is essential to determine their efficiency and sustainability.	135	74.59	46	25.41	181
7	Assessments should identify key factors contributing to the success of initiatives that can be shared and replicated elsewhere.	159	87.85	22	12.15	181
8	Assessments may consider the adaptability and resilience of initiatives in the face of challenges such as climate change & economic fluctuations in community priorities.	132	72.93	49	27.07	181

Table 1 shows the assessing the effectiveness of community-based initiatives to save environment. It was found that around 94.4% respondents accept that effective assessment involves collecting relevant data to evaluate the impact of community-based initiatives. Additionally, developing a robust monitoring and evaluation framework is essential for assessing the effectiveness of community-based initiatives (92.2%). Moreover, assessments should identify key factors contributing to the success of initiatives that can be shared and replicated elsewhere (87.8%). Community-based initiatives often aim to achieve long-term environmental sustainability (84.5%). Furthermore, assessing the effectiveness of community-based initiatives to save the environment requires establishing clear and measurable objectives (79.0%). In addition, evaluating the cost-effectiveness of community-based initiatives is essential to determine their efficiency and sustainability (74.5%). However, engaging with community-based initiatives (73.4%). Lastly, assessments may consider the adaptability and resilience of initiatives in the face of challenges such as climate change & economic fluctuations in community priorities (72.9%).

Conclusion

The triumph of such initiatives is predicated on a multitude of factors, including meticulous planning, adequate financial resources, efficacious communication, and seamless coordination amongst stakeholders. Initiatives that concentrate on fostering cognizance and awareness within the community regarding environmental concerns prove particularly efficacious. Such initiatives augment the community's comprehension and cognizance of environmental issues, which in turn drives a shift in attitudes and conducts pertaining to the environment. The community becomes more attuned to its actions and takes tangible steps to curtail its environmental footprint. Promoting sustainable practices, including recycling, composting, and minimizing the utilization of plastic, is another effective community-based initiative. These measures aid in curbing wastage and promote a circular economy, a crucial aspect of a sustainable future.Community-based initiatives can yield

Assessing the Effectiveness of Community-Based Initiatives to Save Environment: An Empirical

Study

economic benefits for the community. Initiatives that endorse eco-tourism, sustainable agriculture, and green businesses can engender employment opportunities and generate revenue for the community. Such initiatives not only benefit the environment but also promote economic expansion and growth. However, realizing the success of community-based initiatives is not a foregone conclusion, and several obstacles must be surmounted. Funding deficits, inadequate community participation, and discoordination are among the impediments that could impede the success of these initiatives. The achievement of these initiatives necessitates the backing and cooperation of all stakeholders, including governments, non-governmental organizations, and the community. Through collective endeavors, we can construct a sustainable future for generations to come.

References

- 1. Alexander, S. M., Andrachuk, M., & Armitage, D. (2016). Navigating governance networks for community-based conservation. *Frontiers in Ecology and the Environment*, *14*(3), 155-164.
- 2. Armitage, D. (2005). Adaptive capacity and community-based natural resource management. *Environmental management*, *35*, 703-715.
- 3. Conrad, C. C., & Hilchey, K. G. (2011). A review of citizen science and community-based environmental monitoring: issues and opportunities. *Environmental monitoring and assessment*, 176, 273-291.
- 4. Duffy, T. M., & Jonassen, D. H. (2013). *Constructivism and the technology of instruction: A conversation*. Routledge.
- 5. East, M. (2016). Community-led approaches and interventions for the regeneration of abandoned towns in southern Italy. *Ecocycles*, 2(1), 18-25.
- 6. Grandin, T. (2014). Behavioural principles of handling cattle and other grazing animals under extensive conditions. In *Livestock handling and transport* (pp. 39-64). Wallingford UK: CABI.
- 7. Jongbloed, B., Enders, J., & Salerno, C. (2008). Higher education and its communities: Interconnections, interdependencies and a research agenda. *Higher education*, *56*, 303-324.
- 8. Moldan, B., Janoušková, S., & Hák, T. (2012). How to understand and measure environmental sustainability: Indicators and targets. *Ecological indicators*, *17*, 4-13.
- 9. Mueller, J. P., Rischkowsky, B., Haile, A., Philipsson, J., Mwai, O., Besbes, B., ... & Wurzinger, M. (2015). Community-based livestock breeding programmes: essentials and examples. *Journal of Animal breeding and Genetics*, *132*(2), 155-168.
- 10. Oerke, E. C., Dehne, H. W., Schönbeck, F., & Weber, A. (2012). *Crop production and crop protection: estimated losses in major food and cash crops*. Elsevier.
- 11. Otto, J., Zerner, C., Robinson, J., Donovan, R., Lavelle, M., Villarreal, R., ... & Little, P. (2013). *Natural connections: perspectives in community-based conservation*. Island press.
- Polasky, S., Nelson, E., Camm, J., Csuti, B., Fackler, P., Lonsdorf, E., ... & Tobalske, C. (2008). Where to put things? Spatial land management to sustain biodiversity and economic returns. *Biological conservation*, 141(6), 1505-1524.