

Public Awareness, and its Impacts on Climate Change

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ABSTRACT

This research paper explores public awareness's important role in shaping effective responses to climate change. Focusing on the relationship between informed communities and environmental action, the paper investigates how heightened awareness directly influences climate change by inspiring sustainable practices and driving demand for shared work. Also, the research underscores the transformative power of public awareness, emphasizing its capacity to empower individuals as active participants in the collective endeavor toward a resilient and sustainable future. In essence, the research aims to highlight how public awareness contributes to climate action in Afghanistan, celebrating the local initiatives that contribute to a more sustainable future while recognizing the broader implications for the global environmental movement. The methodology extends to incorporating real-life narratives and experiences in Afghanistan and southeast countries, offering a rich tapestry of insights into how awareness manifests in everyday decisions amid unique climate challenges. Also, this research not only contributes to the localized understanding of climate action in Afghanistan but provides a broader perspective on the global implications of informed choices. To ensure the research's success, various sources were used. These included books, journals, and special reports (UNFCCC, UNESCO, COP27, COP28, IPCC, and Land Portal special reports on public awareness and education). Therefore, by utilizing surveys, interviews, and case studies, the research aims to provide a clear understanding of how public awareness translates into actions in the face of climate change.

Keywords: Climate Change, Individual Action, Public Awareness, Sustainable

INTRODUCTION

In our changing world, understanding the role of public awareness is crucial to tackling climate change. This research explores how what we know about the environment affects the actions we take. As our planet faces unprecedented challenges, it's clear that being informed is a powerful tool for change. We'll start by looking at where public awareness comes from—how information spreads, the role of education, and the influence of the media. Then, we'll dive into how this awareness directly and indirectly affects climate change.

Throughout the paper, we'll showcase real-life examples from different parts of the South Asian countries, and Afghanistan where public awareness campaigns have made a difference. These stories highlight how informed communities can bring about positive change, from small local efforts to global initiatives. Eliška et al. (2019) also emphasized the need for further research to investigate the role of public perception of climate change on climate change adaptation, mitigation, and climate policy and communication. Community awareness and information about the options available to confront the problem are essential, as is community empowerment to act. The key to a successful climate change plan is effective public engagement. As a result of increasing scientific evidence and greater media coverage, public concern, awareness, and understanding of climate change have increased after being at low levels in the early 1980s, when the issue first became widely acknowledged (Boykoff and Yulsman, 2013).

Research Objectives

The main objectives of this research are:

1. To Study the Impact of Public Awareness on Climate Action.
2. Highlight Local Climate Initiatives in Afghanistan.
3. Employment Comprehensive Methodology to Understand Public Awareness and Climate Actions.

Research Question

1. What is the relationship between public awareness and climate change and how much is important?
2. How can public awareness be leveraged to mitigate the impacts of climate change?
3. Do government-led initiatives, education institutions, and media platforms effectively promote public awareness regarding climate change?

MATERIALS & METHODS

This research employed the descriptive-qualitative method, with data gathered through surveys, interviews, experiences, and document studies. The combination of diverse data sources, including personal experiences and thorough document analysis, enhances the credibility and depth of the study's findings. Also, to ensure the success of the research, a variety of sources were used. These included books, journals, and special reports (UNFCCC, UNESCO, COP26, COP27, COP28, IPCC, and Land Portal special reports on public awareness and education). Data analysis involves data collection, reduction, display, conclusion drawing, and verification.

A valuable addition to the scientific approach to addressing problems is the pursuit of the public awareness route. Like in the case of the 2020 coronavirus pandemic, when society is aware of the issue and its potential risks, the result will be a large-scale acknowledgment of the issue. Any large-scale acknowledgment has great potential to build momentum. Momentum, in turn, builds motivation and demand, which can be leveraged to develop a multi-scale strategy to tackle the issue. (Rahimi, 2020)

1. Survey Design and Data Analysis

The primary objective of this article is to increase public awareness about the critical issue of climate change. Therefore, we aim to encourage readers to recognize their role in the larger environmental context and motivate them to take meaningful actions toward mitigating climate change. Also, to inspire readers to engage in community initiatives, support environmentally conscious policies, and advocate for systemic changes that contribute to a more sustainable and resilient future, besides, our objective is to encourage dialogue and collaboration for innovative solutions. Quantitative data were analyzed using statistical software for descriptive statistics, while qualitative responses underwent thematic analysis to extract common themes.

Table 2.1 Results of the survey about public awareness.

N	Questions	Yes	No	Yes %	No %
1	Do you believe that government-led initiatives effectively promote public awareness about climate change?	127	23	85	15
2	Do you think celebrities and public figures have a positive impact when they advocate for climate change awareness?	140	10	93	7
3	Do you think climate change awareness campaigns should focus on positive solutions rather than emphasizing negative consequences?	140	10	93	7
4	Do you think educational institutions are doing enough to educate students about the impacts of climate change?	27	123	18	82
5	Do you think there is a sufficient emphasis on climate change in formal education at various levels?	30	120	20	80
6	Do you believe increasing PA about climate change is essential for fostering national, regional, and global cooperation on environmental issues?	144	6	96	4
7	Do you feel that social media platforms in Afghanistan effectively spread climate change awareness?	115	35	77	23
8	Have you ever participated in community events or discussions on climate change awareness?	70	80	47	53
9	Do you believe that simple, everyday actions by individuals can collectively significantly impact addressing climate change?	132	18	88	12
10	Do you follow social media sites or pages about climate change awareness?	99	51	66	34
11	Are you actively involved in sharing information about climate change with friends and family?	115	35	76	23

2. The main causes of the lack of public awareness

150 people participated in this survey, and 82 percent said that educational institutions have not done enough work in the public awareness sector about climate change, and 18 percent said that they have done enough.

Another issue is that 53 percent of the participants said that they did not participate in events or discussions related to climate change, and 47 percent said that they have participated in discussions related to climate change. Also, 66 percent of the participants said that they followed social networks that provide information about climate change, and 34 percent said that they did not follow. Another essential issue is that 85 percent of participants said that the government has taken positive steps regarding public awareness about climate change.

Table 2.2 Results of the main causes of the lack of public awareness.

N	Questions	Yes/N	No/N	Yes %	No %
1	Do you believe that government-led initiatives effectively promote public awareness about climate change?	127	23	85	15
2	Do you think educational institutions are doing enough to educate students about the impacts of climate change?	27	123	18	82
3	Have you ever participated in community events or discussions on climate change awareness?	70	80	47	53
4	Do you follow social media sites or pages about climate change awareness?	99	51	66	34

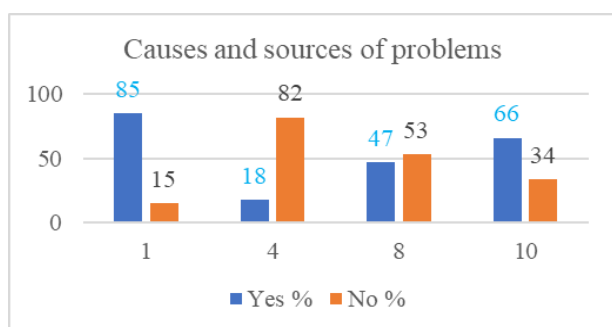


Figure 2.1: Causes and sources of problems

climate change on people's lives across the globe. The campaign, #ClimateChangedMe, takes a twist on a typical "self-help" book and presents climate change as the "ultimate life-changing experience." (IFRC, 2021) Before you can begin promoting climate change awareness in your community, you must first make sure that you have a thorough understanding of this issue. Stay up-to-date on climate news, read books and other materials, and learn about the issues affecting your community. It's much easier to talk to each other about the climate and educate yourself.

Numerous resources are available to promote environmental awareness and education: group learning (inside or outside of the classroom), informational and inspirational seminars, [online courses](#), books, articles, videos, and brochures. These are just a few of the tools that can get you started raising awareness about the environment.

Several studies have shown that risk perception influences public support and engagement in climate change initiatives (Hagen et al., 2016). However, not many changes have occurred, even with the different awareness approaches used. Higher awareness of climate change may relate to lower risk perceptions due to the normalization of risk (Luís et al. 2018). This is a phenomenon where people no longer view risks as threats. Dangerous practices or conditions become acceptable over time because of gradual adaptation. Many people cannot afford greener options due to financial constraints. Several points are mentioned in this survey to promote public awareness:

- The government, national, and international organizations, and every person have a role in promoting awareness that everyone should fulfill their responsibility in this area.
- In raising public awareness, educational institutions should take positive steps in this direction, as 82 percent of participants said the educational institutions have not done effective work in this field.

How to Promote Public Awareness?

Education, including formal education, public awareness, and training, should be recognized as a process by which human beings and societies can reach their fullest potential. Education is critical for promoting sustainable development and improving the capacity of people to address environmental and development issues. Geneva, October 4, 2021, the International Federation of Red Cross, and Red Crescent Societies (IFRC) launched today an innovative campaign showcasing the impact of

- In this survey, 93 percent of participants said that celebrities and public figures have a positive effect when they support climate change awareness.
- Also, 93 percent of participants in this survey said that climate change awareness campaigns should focus on positive solutions instead of emphasizing negative consequences.
- Social media platforms in Afghanistan should effectively spread awareness of climate change, they should make films, short movies, documentaries, and another fundamental steps.
- 88 percent of the participants said that the daily actions of people collectively can significantly affect the handling of climate change. Actively participates in sharing information about climate change with friends and family.

Table 2.3 Opportunities to promote public awareness.

N	Questions	Yes	No	Yes %	No %
1	Do you think celebrities and public figures have a positive impact when they advocate for climate change awareness?	140	10	93	7
2	Do you think climate change awareness campaigns should focus on positive solutions rather than emphasizing negative consequences?	140	10	93	7
3	Do you believe increasing PA about climate change is essential for fostering national, regional, and global cooperation on climate issues?	144	6	96	4
4	Do you believe that simple, everyday actions by individuals can collectively significantly impact addressing climate change?	132	18	88	12

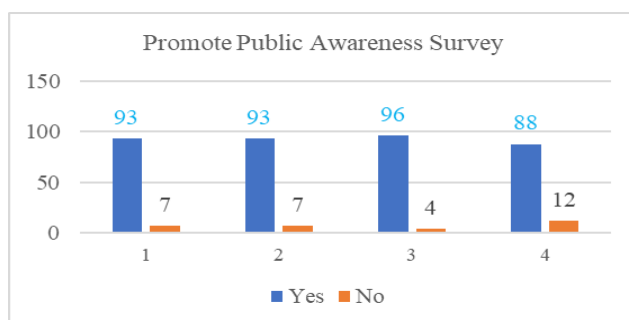


Figure 2.2: Results of the Survey of Promote Public

Benefits of raising awareness

Awareness increases enthusiasm and support and promotes self-mobilization and action. The role of awareness in climate change adaptation is therefore crucial to managing the impacts of climate change, enhancing adaptive capacity, and reducing overall vulnerabilities. Any climate change campaign aims to achieve long-term behavioral changes that lead to positive impacts and such are created via the participation of the public. Awareness raises alertness which leads to action. Once the individual

has understood the gist of the issue, they can then evaluate what changes to their normal routine would be environmentally friendly. This will promote climate literacy among young people, helping them change their attitudes and behavior, and helping them adapt to the impacts of global warming.

The international community recognizes the importance of education and training to address climate change. The UN Framework Convention on Climate Change, the Paris Agreement, and the associated Action for Climate Empowerment (ACE) agenda call on governments to educate, empower, and engage all stakeholders and major groups on policies and actions relating to climate change. www.unesco.org/en/node/66349

RESULTS

The researchers found that public awareness of climate change yields transformative results across various areas. The informed citizen drives policy shifts towards a sustainable future, prompts corporate responsibility, power community-led initiatives, stimulates technological innovation, fosters international cooperation, convinces behavioral shifts, and accelerates scientific advancements. These collective outcomes signify a powerful, solid commitment to a sustainable future—a testament to the potential of widespread awareness in addressing the urgent challenges posed by climate change.

DISCUSSION

The link between public awareness and climate change action is vital in the global effort to combat environmental challenges. Educated nationals, armed with an understanding of climate issues, drive behavioral shifts towards sustainability. This translates into eco-friendly choices, influencing markets, and pushing for

greener corporate practices. The common voice of an informed public reinforces advocacy, pressuring governments worldwide to enact robust climate policies. Heightened awareness fosters a global sense of solidarity, emphasizing the interconnected nature of environmental issues and the need for collaborative solutions. Public awareness plays a central role in driving individual and collective action towards a sustainable future (CHANGE, 2007).

CONCLUSION

In conclusion, the profound impacts of public awareness of climate change are undeniable, serving as a linchpin in our collective efforts to address one of the most crucial challenges of our time. The journey toward a sustainable future necessitates not only a deep understanding of the environmental issues at hand but also active and informed engagement from individuals across the globe.

REFERENCES

- Abbasi, Z. A. K., & Nawaz, A. (2020). Impact of climate change awareness on climate change adaptations and climate change adaptation issues. *Pakistan Journal of Agricultural Research*, 33(3), 619.
- Boykoff, M.T. and Yulsman, T., 2013. Political economy, media, and climate change: sinews of modern life. *Wiley Interdisciplinary Reviews: Climate Change*, 4(5), pp.359-371.
- CHANGE, O. C. (2007). Intergovernmental panel on climate change. World Meteorological Organization, 52.
- Creswell J. (2002) *Research Design: Qualitative, Quantitative, and Mixed Method Approaches* (Thousand Oaks: Sage Publications)
- Hagen, B., Middel, A. and Pijawka, D. (2016). European climate change perceptions: Public support for mitigation and adaptation policies. *Environmental Policy and Governance*, 26(3), pp.170-183.
- IFRC. 2021. #ClimateChangedMe Campaign. Geneva, International Federation of Red Cross.
- Luís, S., Vauclair, C.M. and Lima, M.L. (2018). Raising awareness of climate change causes? Cross-national evidence for the normalization of societal risk perception of climate change.
- United Nations Educational, S. a. (2019). Country Progress on Climate Change Education, Training, and Public Awareness an analysis of country submissions under the United Nations Framework Convention on Climate Change. UNESCO, 14.