

THE IMPENDING GLOBAL WARMING: A SOCIETAL PERSPECTIVE

By:

Dr. Naloka Baker Frederick

Counse Mary Mirembe Naloka

Mr. Mugajju Robert David

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Dedication

For the scientists who sounded the alarm, the activists who built the movements, the engineers designing the solutions, and the policymakers with the courage to lead.

But most of all, for the citizens of the world—the voters, the consumers, the community members—whose everyday choices will ultimately write the final chapter of this story.

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Preface

The specter of global warming towers high above humankind, a challenge of gigantic proportions and difficult to resolve, one that transcends scientific laboratories and arguments about environmental policies. Over the decades, the debate on climate change has been filled with scientific opinion, data paradigms and the bleakness of increased temperatures and melting ice tops. Although this scientific basis is irrefutable and absolutely vital, this book suggests that global warming should not only be explained through the prism of the environment or science. In order to not just see the extent of what is still ahead of us, but more importantly to make the right strides in the right direction we need to look at **THE IMPENDING GLOBAL WARMING** in a very human, **A SOCIETAL PERSPECTIVE**. The book is a product of a deep belief that climate change is not only an environmental crisis but a deep societal crisis, which is closely embedded in the structure of our economies, political structures, culture, population health and social justice. It is a crisis that unveils the previous disparities and exacerbates them, re-establishes the geopolitical reality, and casts doubt on the human civilization itself. The policies we make or do not make will permanently shape the world that will be left to future generations. It is not far away, but an ongoing reality and its effects are already being experienced in the societies of the world.

We are going to take a detour through these pages to discover how global warming is radically transforming human societies. We are going to explore the social vulnerabilities that it causes, the economic devastations that it causes, the health crisis that it causes, and the migrations and conflicts that it inflames. We shall also discuss how media has influenced the outlook of the people, the political elements that have been detrimental to change, and the grassroots movements that are advocating for change. Most importantly, this book is not merely a critique of issues; it is an account of solutions, but the changes that need to take place in the society in terms of mitigation and adjustment. We shall consider the enlightenment of the green economy, the strength of individual and collective action and the necessity of global collaboration.

Anyone interested in learning more about the human aspect of climate change will find this work of interest: policymakers who have to make complicated choices, students willing to learn more about one of the most significant issues of their era, activists who want to live in a more sustainable world, and an interested citizen with the need to gain a better understanding of the societal impact of a warming planet. You know, those who realize that though the diagnosis may be given by the science, the answer may be found in our joint will in society and action. The problems are huge, and yet, the ability of human resourcefulness, stamina, and mutualism is enormous. By turning our attention to the social consequences of global warming we want to shed more light on the ways of approaching a more fair and sustainable future. The book is a call to action and come to grips with the urgency of the moment, to comprehend the deep societal changes that are afoot, and to join in becoming an active participant in creating a resilient world to which we can all belong.

The time for action is now. Our societies rely on it in the future.

Authors: Dr. Naloka Baker, Counsel Mary, and Mr. Mgajju

Date 19-10-2025

Acknowledgments

This book, *THE IMPENDING GLOBAL WARMING: A SOCIETAL PERSPECTIVE* is the end result of a lengthy and difficult process, one that could have never been done without the broad support that was given to us. The intense appreciation herein is directed to numerous individuals and many institutions whose mutual work, intellectual interchange and unabiding support was essential. It is hardly ever a one-man show, such a complex and interdisciplinary work uniting the tough science of climate change and its deep societal consequences. It is the monument to the collaborative spirit of scholarly production, the sense of a great treasure about those who helped in the conceptualization, research and writing of it. The breadth of support that is necessary of such an undertaking conveys the sheer amount of effort required to do so sublimely, in support of the academic rigor and depth that this particular volume has its foundation in.

Intellectual input and Co-operation.

The scholarly input of a wide range of colleagues, mentors, research assistants, and peer reviewers were invaluable and the collaborative and iterative aspect of academic scholarship was emphasized. Professionals in the field were extremely helpful in giving discussions and critical feedback that proved to be of great use in the construction of the arguments as reflected in this book. Such exchanges created the necessary interdisciplinary dialogue that is necessary to mediate between scientific and social viewpoints, and address global warming with more subtle societal implications.

It allowed taking great advantage of the diligent effort of the committed research assistants, Martin Kafuko and Arinaitwe Isaac. Their careful works gave a solid empirical foundation of the analysis that enabled the research to have a wider and deeper focus that could not have been achieved otherwise. Such contributions played a crucial role in making a solid theoretical argument based on evidence.

More so, the anonymous peer reviewers offered invaluable and constructive criticism that contributed to high rigor and clarity of this manuscript. Their professional analysis helped to sharpen the arguments, contend the assumptions, and guarantee the academic quality of the work. An efficient intellectual ecosystem is created by the cooperative combination of various roles, which includes peer reviewers who can offer formal expert opinion, research assistants who can supply background material, and co-workers who can offer informal remark. This multi-layered approach guarantees that the book not only has its arguments well researched, but also well vetted and perfected as evidenced by the dedication to intellectual modesty and academic excellence.

Much as the value of the insights and critique of others has been enormous, the rest of the mistakes or oversights, are purely the fault of the author. This typical scholarly disclosure helps the author to reinforce his or her ultimate responsibility and at the same time admits to the vast amount of work done by other people to make the work as egregious and less problematic as possible.

It has an editorial and publishing team.

Thanks to the publishing house and the team of professionals, who have brought the manuscript into the professional level of polishing, making it publically available and professionally presented scholarly book. Professional guidance and commitment in the implementation of this vision was done by the editorial team at Cler Fox Publishers. This includes the very important role of acquisition editors, developmental editors, copyeditors, proofreaders, designers, and the marketing team.

Even the most intellectually meritorious academic manuscript needs a lot of professional input to be turned into a successful published book. Bringing this vision into reality is a phrase which means that the publisher is not only a service provider but an important collaborator in fulfilling the ultimate objective of the author to share his/her research with a more broad audience and present its professional image. This recognition highlights the cooperative aspect of academic publishing and the skilled knowledge needed on top of what the author knows. In the case of a book on the topic of impending global warming, a social attitude and broad distribution are the keys to the full extent of its contribution to academic discussions, policy discussions, and mass awareness. This part thus points out an important move towards putting the complex academic work into a public contribution that can actually inform and impact.

Personal Support

Lastly, though most importantly, our families are given their due credit in their unswerving support, patience, and tolerance in this taxing process. Composing an academic book, especially a challenging and complicated one such as this, is a time-consuming, tedious and, at times, lonely task. It entails so much commitment, concentration, time and psychological effort which can greatly cause stress on personal affairs.

Concluding Remarks

To everybody who has contributed to this, the most profound gratitude is repeated. This book is a witness to their mutual support, contributions to learning and encouragement without wavering. Hopefully, the work will be a contribution to the wisdom and trigger action on the very serious matters concerning global warming in the social sense.

Authors: Dr. Naloka Baker, Counsel Mary, and Mr. Mgajju Robert.

Date 19-10-2025

Introduction

The Impending Global Warming: An analysis of climate change in a societal perspective is concerned with the structure of human society. Despite the fact that scientific background of global warming cannot be ignored, the book argues that climate change cannot be considered as an environmental issue but a serious social problem. It influences the way countries are run, the way citizens exist, the way the economy operates and the way inequalities become more and more prevalent all over the world. The book poses an immediate question of tying together the scientific, social and political nature of climate change, how can humanity solve this crisis with combined resilience, justice and responsibility alongside technology?

To deal with this, the chapters that follow are organized around a number of related concepts.

We begin with the science first. All the rest relies on the physical basis of climate change, which encompasses the destabilized ecosystems, increased emission of greenhouse gases, and increasing temperatures of the globe. This scientific evidence gives us the background to understand just how massive this planet changing phenomenon has been accelerated by human actions such as industrialization, burning of fossil fuels and deforestation.

Then we talk about the role of the society in the disaster. The contribution to global warming has not been the same across all countries; in the past, the developed nations are the leaders in emission production with their developing counterparts bearing the brunt. In addition to this inequalities, environmental degradation is also perpetuated by the manner in which we build cities, our consumption and economic policies.

Then we see those people, who are the most burdened. Climate change worsens the existing vulnerabilities, and not everybody is affected by it equally. Low-income communities, indigenous populations and the inhabitants of the emerging nations face more severe storms, food insecurity and forced migration as the front runners of rising sea levels. Their lives illustrate that inequality is the central point in the global warming story.

Then the book evaluates the answers that we have attempted so far. Although the national laws, business pledges and international climate treaties are efforts of great importance, they also demonstrate the weaknesses of our political and economic systems. It posits a question of whether the mitigating methods present are enough or there is a need to have totally new models of responsibility, growth and governance. At last, we look to the future. Solutions may be found, both on the global level and on the grassroots, both in sustainable agriculture and in the transition to renewable energy. Nevertheless, these solutions require courageous management, teamwork, and cultural transformation besides technology. It is not only to adapt but also struggle to alter the basic structure of our society.

Consequently, this work has far-reaching yet solid scope. Although it concentrates on the social and humanist dimensions of the crisis, namely, social justice, economic systems, political policy, cultural beliefs, the psychology of climate change, community resilience, urbanization, migration, inequality, and public perception, it covers such issues as global warming, climate change, and the Anthropocene. Among the numerous effects and consequences of scarcity of resources, a lack of food security, water stress, the emergencies of the public health, violence, geopolitics, infrastructure issues, and development sustainability, only a few of them are discussed. The book also explores simultaneously a multiplicity of responses and solutions, such as social movements, technological progress, behaviour change, adaptation and mitigation strategies, global cooperation, new forms of governance, and the global transition to renewable energy and decarbonization. It is the combined nature of these related themes that enable one to understand climate change as a social transformation that is already occurring, but not merely an environmental issue.

In the simplest sense, *The Impending Global Warming: A Societal Perspective*, is an appeal to acknowledge climate change as what it is: it is the challenge to the ability of humanity to adapt not only our technologies but also our institutions, beliefs, and lifestyles. It states in the book that the world needs systemic change to counter global warming by integrating scientific knowledge and social analysis.

The book aims at a wide readership, such as scholars interested in having a socio-political approach to climate science, decision-makers with urgent matters, activists with demands, business leaders dealing with sustainable changes, and the general audience who seeks to understand the human faces behind the climate narratives.

You are all welcome here, as well as you, the reader. It is a call to go beyond the graphs with temperature increase to find out more about the way the climate change is impacting communities. The story will begin with the science that proves that the world is getting warmer under our feet as we proceed to the first chapter.

Chapter 1

THE CLIMATE CRISIS UNVEILED: THE SCIENTIFIC CONSENSUS

Climate scientists have reached consensus that climate change is factual and to a large extent human induced despite the excessive media and political attention given to those who deny it. A seminal study that was published in *Environmental Research Letters* reaffirmed this conclusion. Out of the 4,000 peer-reviewed articles examined, researchers found 97 percent of them concurring that global warming is anthropogenic, meaning that global warming is largely caused by human activity. However, climate denialists, many of whom are affiliated to the fossil fuel industry, have taken decades to craft disinformation campaigns aiming at discrediting urgent climate action.

According to the lead author, John Cook, of the University of Queensland, findings indicate that scientists are in strong agreement over the cause of climate change contrary to popular belief. He notes, “There is a gaping chasm between the actual consensus and the public perception. It’s staggering, given the evidence for consensus that less than half of the general public think scientists agree that humans are causing global warming.”

In a study that Cook co-authored, the authors examined 11,994 papers of nearly 30,000 scientists over a 20-year span; that is a lot of material. One-third, in particular, addressed human-induced global warming. The result was grim: 2 percent, or 87 articles, rejected the idea that human activity is causing climate change, while 97.1 percent agreed.

There was no surprise that the two-thirds of the remaining articles did not have clear positions. The great number of abstracts with no opinion about the anthropogenic global warming, as noted by the authors, is interesting. This outcome is anticipated in consensus settings because scientists typically concentrate their talks on issues that remain controversial or unresolved rather than ones that are universally accepted (Oreskes, 2007). This also reflects trends in other areas. There is a common belief among many climate scientists that it is human beings that cause global warming just as most articles in biology no longer doubt evolution.

More importantly, the conclusions presented by Cook were not unilateral. Earlier studies had reached the same conclusions. Indicatively, in 2010, almost 1,000 scientists interviewed said that human activity is the major cause of climate change by nearly 97.5 per cent. The strength of the scientific consensus was

evidenced by the fact that both studies were close to the same percentage even though they varied in methodology.

The implications of this agreement are large. Due to greenhouse effect, global temperatures have gone up by approximately 0.8oC (1.4oF) in the industrial revolution. Warmer oceans and air have led to rising sea levels, melting glaciers, melting Arctic sea ice, altered patterns of species migration and more severe extreme weather occurrences. Also, emissions have led to acidification of oceans, which have threatened marine biodiversity and coral reefs. In much more recent studies, climate change can be even alter the jet stream, leading to unseasonable extremes such as sporadic heat waves, intense cold spikes and erratic rainfall in the northern hemisphere.

Nevertheless, nations have been slow to act despite the mass of evidence. The amount of greenhouse emissions continues to increase every year. To avoid disastrous warming, scientists warn that temperatures should not rise beyond 2 degrees of centigrade above pre-industrial temperatures. But there's not much time left. Carbon concentrations recently exceeded 400 parts per million (ppm), which had not been seen in the millions of years. It is the richest carbon-rich environment in which human beings have ever existed. Cook identifies the necessity of the public being aware of global warming by pointing out that once people realize that scientists are unanimous on the fact of global warming, then they will be more inclined to support the measures that will be taken on the issue. The scientific method is not the problem; rather, it is the willingness of society to react

Climate change is already being felt. The High Park wildfire in Colorado in 2012 caused the destruction of landscapes as a result of rising temperatures and droughts. The Pacific Island nations are inundated with rising sea levels and more acidic oceans and have a population of about 10 million. A study published in "Nature Climate Change" claimed that more than 10,000 species are experiencing serious habitat loss, and that the glaciers of the Mount Everest region have shrunk by 13% over the last 50 years. We can also be reminded by the terrifying things of the past; when CO2 levels last rose to 400 ppm, the sea level was 40 meters above the present, global temperatures were 8oC warmer than today.

These patterns are supported by recent reports from the Intergovernmental Panel on Climate Change (IPCC). Their Sixth Assessment Report (2021) revealed with a great level of certainty that the global warming of about 1.1 oC (2oF) had already taken place since the end of the 19th century due to human activity. It is expected that the average global temperature would increase by 1.5oC or higher in the next several decades. Some of these effects such as melting ice sheets and alteration in weather patterns cannot be reversed on human time scales. Short-term choices will influence the future outcomes greatly: fast cuts