


# Chapter 10

## A Study on Understanding Climate Change and Organizational Responsibility

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### **ABSTRACT**

*Organizational responsibility, climate change, is important to their being able to tackle the global environmental crisis. A rise in temperatures, the rise of extreme weather events, disrupted ecosystems, all these are the results of human influence on the climate. In particular, organizations, both in private and public sectors, have a vast role in lessening its effects through sustainable practices, reduction of carbon*

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*footprints and advocating for policies that value environmental conservation. In context of climate change, Corporate responsibility involves taking up eco-friendly technologies, energy efficient processes and supporting climate action. Additionally, organizations are required to spread the word, teach stakeholders, and establish a sustainability based culture. Integrating climate change considerations into their operations and decision making processes has the potential of adding organization related value in the global fight against climate change and advocacy of long term environmental stewardship.*

## **INTRODUCTION**

Climate change has established itself as the utmost global challenge of the twenty-first century because it creates serious impacts on ecosystems alongside economies as well as societies. Global temperatures continue to increase because of human-made GHG emissions which cause multiple severe environmental results including sea-level rise together with extreme weather events and biodiversity decline (IPCC, 2021). Multiple disaster-proportional climate change predictions have been issued by the Intergovernmental Panel on Climate Change (IPCC in 2021). Climate change mitigation requires collective action between organizations and individual citizens and government institutions because the problem has reached a significant scale through business operations within economic structures that control environmental results.

The economic decisions organizations make serve as primary causes which determine either the maintenance or the reduction of global warming damage. Manufacturing institutions and energy production facilities together with transportation systems constitute the primary contributors to environmental deterioration and carbon emissions (Stern, 2007). Business activities cause significant GHG emissions to occur between business operations and supply chain functions as global resource usage continues to raise worldwide pollution levels according to Rockström et al. (2009). The total exploitation of natural resources together with the destructive impact of deforestation results in environmental deterioration because industry creates harmful waste that speeds up climate change (Steffen et al., 2015). Organizations maintain solution-generation power due to their innovative capabilities coupled with their policy support activities and responsible conduct. Through sustainable approaches organizations fight environmental pollution along with improving sustainable consumption practices and power efficiency (Porter & Kramer, 2011).

The study analyzes origin factors and outcome elements of climate change throughout this chapter. Fossil fuel emissions along with industrial activity and deforestation processes cause substantial increases of carbon dioxide (CO<sub>2</sub>) and Greenhouse Gas (GHGs) concentration within the atmosphere (NASA, 2020). Defor-

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