

Causes of Climate Change

~~1~~ Introduction

1) Industrialization and Fossil Fuel Consumption

A major cause of climate change is the industrialization. As like, Factories, transportation & Power generation Plants burns coal, oil and gases, which releasing massive amount of carbon emission into air or atmosphere. Rapid urbanization lead to increase in demand of energy. As cities expand and population increase lead to increase in demand, which result in further increase in greenhouse gas emissions. The rise in energy consumption traps heat in the atmosphere, and accelerate the global warming at the alarming rates.

2) Deforestation and Land degradation

Deforestation can be another major cause affecting climate. As it destroys natural carbon absorber which sinks harmful gases. Large Scale Cutting in the Amazon, southeast Asia and even in the Pakistan has decrease the ability of Earth to absorb carbon dioxide. Region Such as Amazon and Southeast Asia have experienced massive deforestation due to development projects. Pakistan, too faced significant loss of forest due to timber harvesting and land clearing. This loss and deforestation releases the stored carbon into atmosphere, which badly affected the earth and contributing in rising temperature of earth.

3 Agriculture Practices and livestock Farming

Agriculture Practices, more likely livestock farming emit powerful greenhouse gases like methane and nitrous oxide into atmosphere. Cattle and other ruminant animals ~~releases~~ releases methane during digestion, while rice paddies produce methane due to waterlogged soil. Use of excessive chemical fertilizer leads to release of nitrous oxide into air. Methane and nitrous oxide both are far more potent gases than carbon dioxide or greenhouse gases. The release of these gases makes food production a key driver of climate change.

4 Industrial Waste and over Consumption

The growth of consumer-driven lifestyle accelerated climate change by encouraging mass production, excessive consumption and large quantities of industrial waste. Large scale of manufacturing emits large amounts of greenhouse gases into atmosphere, while use of plastic and other non-degradable materials creates lasting environmental harm. This modern lifestyle strains natural resources and raises overall carbon emissions into the environment, ultimately worsening global warming.

5) Natural climate Variability

While human activities are the primary causes of climate change, but natural factors also influence global temperature patterns. A volcanic eruption emits ash and gases that can temporarily modify atmospheric conditions and affect solar radiation. These natural fluctuations contribute to today's

rapid global warming and insufficient to
account for the current pace of climate change.