

Kingdom of Saudi Arabia  
Ministry of Education  
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## Globe Virtual Global

### ☐ Environmental Science Exhibition

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( GLOBAL WARMING )

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What distinguishes the globe from the planets? The major long-standing atmospheric constituents of "short dwellings of years" (1)

### Global Warming :

Global warming can be defined as a gradual rise in the lower layer near the surface of the earth and close to the atmosphere surrounding the Earth due to the high level of carbon dioxide, methane, nitrous oxide gas, and chlorofluorocarbon gas which is one of the most dangerous gases because it causes corrosion of the ozone layer, and some Other gases in the atmosphere resulting from human industrial activities and the resulting pollution, especially after the industrial revolution, which clearly affected the climate, and these gases are called greenhouse gases, which are considered the first factor Because of the heat absorbed tapas to sunlight, and an increase in the air is working to raise the temperature due to the absorption of infrared (2)



### Causes of global warming :

The causes of global warming are many and varied, which define the concept of global warming in general.

According to the Environmental Protection Agency, the causes of global warming are common between humans and the nature of the Earth's surface, and their effects

are serious at both levels. Carbon dioxide in the atmosphere. Transportation: A significant proportion of greenhouse gas emissions come from transportation for people and goods. Agriculture: Agriculture and livestock release large amounts of methane and carbon dioxide into the atmosphere. Deforestation: Consumption of wood for building materials or paper increases carbon dioxide. Oil exploration: The combustion resulting from oil exploration increases the percentage of carbon dioxide released into the atmosphere. Waste: Too much garbage in landfills causes methane and nitrous oxide to be released. (3)

**Among the most famous of these reasons are :**

**green cover :**

The mean temperature of the Earth's surface is maintained by the balance between the various forms of solar and terrestrial radiation. Solar radiation often emits short waves with relatively high frequencies while ground radiation emits long waves with relatively low frequencies and relatively long wavelengths, where the Earth's surface temperature is related. The magnitude of this radiation is issued according to the Boltzmann law, and the presence of greenhouse gases such as carbon dioxide, methane and nitrous oxide in the atmosphere leads to a rise in surface temperature and the lower part of the atmosphere.

**Radiative forcing :**

One of the causes of global warming is the radiative forcing, which is a measure of the effect that the climate factor has on the amount of downward radiative energy that affects the surface of the Earth. The Earth is inside the atmosphere, as happens during volcanic eruptions, as emissions of gases block part of the solar radiation from the surface.

## Effects of human activity:

Human activity is one of the most important causes of global warming by changing the radiation balance, and it is the most profound effect by increasing greenhouse gas concentrations in the atmosphere by changing aerosol and ozone concentrations and adjusting the Earth's surface cover through industrial activities and emissions from cars and construction operations. (4)

## The effects of global warming :

- The effects of global warming on the globe multiply and expand to include the whole world, global warming can affect the four seasons where the growth of trees and plants will be more because of the large amounts of rain that falls, and may affect other regions of the world completely opposite where high temperatures and fewer quantities Rain, which causes droughts and the appearance of deserts, and other effects of global warming include :

- The low level of Arctic ice will make it less dense, which reduces the amount of snow falling on it, and its impact will be negatively affected on the sport of skiing in the region and on the neighboring agricultural lands.

- Impact on living ecosystems as they are very delicate, and any change in them, even if simple, will lead to the destruction of many of them because they are interconnected. Adapt to the new environment and some of them may become extinct.

- The change in some ecosystems may be gradual or may happen suddenly as happened in the tundra in northern Canada, which turned into forests.

Global warming may cause many lives to be lost annually due to heat-related diseases such as strokes, and thousands of people may suffer from hunger due to the lack of rainfall that prevents crops from growing, or disease due to coastal flooding. (5)

## How to reduce global warming :

Global warming is a global phenomenon and a serious problem that must be addressed by limiting the amount of thermal emissions that are trapped in the atmosphere, and this phenomenon can be reduced by following some steps (6)

- More and more renewable energy is used, replacing the. existing energy system with a cleaner, less consuming coal and fossil fuel system.
- Supporting other solutions that reduce the use of oil and fuel in vehicles.
- Set limits for the amount of carbon that pollutant factories are allowed to emit.
- Building a clean energy economy by investing in effective industries and energy technology approaches.

Reducing water waste that reduces carbon pollution.

-(7)

- Planting trees, as one tree alone absorbs one ton of carbon dioxide throughout its life. (8)



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