

NASA

- 27 Extreme Weather Events: Extreme weather effect is another effect of global warming. While experiencing some of the hottest summers on record, much of the United States has also been experiencing colder than normal winters.
- Changes in climate can cause the polar jet stream - boundary between the cold north pole air and the warm equatorial air - to migrate south, bringing with it cold, Arctic air. This is why some states can have a sudden cold snap or colder than normal winter, even during the long-term trend of global warming, where explained.
- Global warming can also lead to extreme weather other than cold or heat extremes. For example hurricane formations will change. Though this is still a subject of active scientific research, current computer models of the atmosphere indicate that hurricanes are most likely to become less frequent on a global basis, though the hurricanes that do form may become more intense. (Hurricanes could also be more frequent).
- 37 Ice melt!: One of the primary manifestations of climate change so far is melt. North America, Europe and Asia have all seen a trend towards less snow cover between 1950 and 2015, according to 2016 research published in the journal Current Climate Change Reports. According to the the National Snow and Ice Data Centre, there is now <sup>10 percent</sup> less ~~ice~~ premafrost, or permanently frozen ground, in the northern hemisphere than there was in the early 1900s. The thawing of premafrost can cause landslides and other sudden land collapse. It can also <sup>release</sup> long buried microbes, as in a 2016 case when a



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## Essay On Global Warming 29<sup>th</sup> June 2020

What is global warming? Global warming is the temperature of the earth has increased since 1950 until now the temperature continuing to increase. Global warming can also refer to climate change that causes an increase in the average of temperature. However global warming are caused by natural and human events that are believed to contribute to the increase in average temperature.

### Causes of Global Warming

#### 1) Burning fossil fuels!

When we <sup>burn</sup> generate fossil fuels like coal, oil and gas to create electricity or power our cars we release CO<sub>2</sub> pollution into the atmosphere.

Australians are big producers of CO<sub>2</sub> pollution compared to the rest of world. Their level of CO<sub>2</sub> pollution per person is nearly double the average of other developed nations and more than four times the world's average.

#### 2) Deforestation and Tree clearing!

Plants and trees play an important role in regulating the climate because they absorb carbon dioxide from the air and release oxygen back into it. Forests and bushland act as carbon ~~sinks~~ <sup>sinks</sup> and are a valuable means of keeping global warming to 1.5°C. But humans clear vast areas of vegetation around the world for farming, urban and infrastructure development to sell-tree products such as timber and palm oil. When vegetation is released back into the atmosphere as CO<sub>2</sub> contributing to global warming.

Fact: up to one-fifth of global <sup>greenhouse</sup> gas pollution comes from deforestation and forest degradation.



## Agriculture & Farming:

Animals, particularly Live Stock Like sheep and cattle, produce methane, a greenhouse gas. When live stock are grazed at a large scale, the amount of methane produced is a big contributor to global warming.

Some fertilisers that ~~Farmers~~<sup>farmers</sup> use also release nitrous oxide, which is another greenhouse gas.

The Biggest contribution to global warming is electricity and heat production (25% of 2010 global greenhouse gas emissions): The burning of ~~coal~~, natural gas and oil for electricity and heat is the largest single source of global greenhouse gas emissions.

## Effects of Global Warming

→ Increase in Average temperature and Temperature extremes: One of the most immediate and obvious effect of global warming is the increase in temperature around the world. The average global temperature has increased about 1.4 degree Fahrenheit (0.8°C) over the past 100 years, according to the National Oceanic and Atmospheric Administration (NOAA).

Since Record keeping began in 1895, the hottest year on record worldwide was 2016, according to NOAA and NASA data. That year the Earth's surface temperature was 1.78 degree Fahrenheit warmer than the average across the entire 20th century. Before 2016, 2015 was the warmest year on record globally. And before 2015? Indeed, 2014. In fact, 16 of the 17~~th~~<sup>th</sup> warmest years on record have happened since 2001, according to



Cache of buried reindeer carcasses thawed and caused an outbreak of anthrax.

One of the most dramatic effects of global warming is the reduction in Arctic <sup>sea</sup> ice. Sea ice hit record-low extents in both the fall and the winter of 2015 and 2016, meaning that at the time when the ice supposed to be at its peak, it was lagging. The melt means that there is less thick sea ice that persists for multiple years. That means less heat is reflected back into the atmosphere by the shiny surface of the ice and more is absorbed by the comparatively darker oceans, creating a feedback loop that causes even more melt.

### Some Solutions

- 1) Prevent deforestation and tree clearing
- 2) Plant more trees through reforestation and afforestation
- 3) Shop sustainably
- 4) Call on our leaders to introduce stronger laws to stop excessive tree clearing
- 5) Reduce the amount of electricity generated from coal and gas
- 6) Increasing the amount of electricity from clean, renewable energy sources like solar and wind.
- 7) Join the movement for stronger action on climate change and urge key ~~politicians~~ politicians to get us back on track.
- 8) Use different stock feed that can help to reduce farming's contribution to climate change.

The conclusion confirms that global warming is the major challenge for our global society. There is very little doubt that global warming will change our climate in the next century. If implemented now, a lot of the costs and damage that could be caused by changing climate can be mitigated.