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What Is Climate Change?

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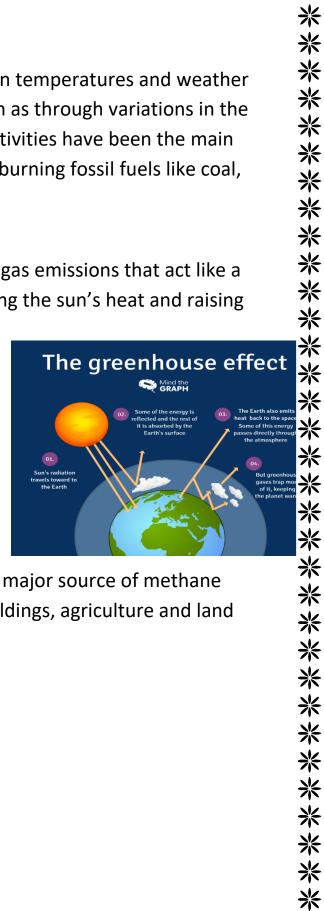
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Climate change refers to long-term shifts in temperatures and weather patterns. These shifts may be natural, such as through variations in the solar cycle. But since the 1800s, human activities have been the main driver of climate change, primarily due to burning fossil fuels like coal, oil and gas.

Burning fossil fuels generates greenhouse gas emissions that act like a blanket wrapped around the Earth, trapping the sun's heat and raising temperatures.

Examples of greenhouse gas emissions that are causing climate change include carbon dioxide and methane. These come from using gasoline for driving a car or coal for heating a building, for example. Clearing land and forests can also release

carbon dioxide. Landfills for garbage are a major source of methane emissions. Energy, industry, transport, buildings, agriculture and land use are among the main emitters.







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People are experiencing climate change in diverse ways

Climate change can affect our health, ability to grow food, housing, safety and work. Some of us are already more

vulnerable to climate impacts, such as people living in small island nations and other developing countries. Conditions like sea-level rise and saltwater intrusion have advanced to the point where whole communities have had to relocate, and protracted droughts are putting people at risk of famine. In the future, the number of "climate refugees" is expected to rise.

Every increase in global warming matters

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In a series of UN reports, thousands of scientists and government reviewers agreed that limiting global temperature rise to no more than 1.5°C would help us avoid the worst climate impacts and maintain a livable climate. Yet policies currently in place point to a 2.8°C temperature rise by the end of the century.

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The emissions that cause climate change come from every part of the world and affect everyone, but some countries produce much more than others. The 100 least-emitting countries generate 3 per cent of total emissions. The 10 countries with the largest emissions contribute 68 per cent. Everyone must take climate action, but people and countries creating more of the problem have a greater responsibility to act first.

We face a huge challenge but already know many solutions

Many climate change solutions can deliver economic benefits while improving our lives and protecting the environment. We also have global frameworks and agreements to guide progress, such as the Sustainable Development Goals, the UN Framework Convention on Climate Change and the Paris Agreement. Three

broad categories of action are: cutting emissions, adapting to climate impacts and financing required adjustments.

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Switching energy systems from fossil fuels to



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renewables like solar or wind will reduce the emissions driving climate change. But we have to start right now. While a growing coalition of countries is committing to net zero emissions by 2050, about half of emissions cuts must be in place by 2030 to keep warming below 1.5°C. Fossil fuel production must decline by roughly 6 per cent per year between 2020 and 2030

*********** 米 米 ********** 米 米 米 We can pay the bill now, or pay dearly in the future 米 Climate action requires significant financial investments by 米 米 governments and businesses. But climate inaction is vastly 米 more expensive. One critical step is for industrialized countries *** to fulfil their commitment to provide \$100 billion a year to developing countries so they can adapt and move towards 米 greener economies 米 米 **※** ※ ************* 米 米 米 *** 米 米 米 米 米 **※** 米 米 米 米 ************

****************** 米 米 ********** 米 米 米 What are 10 ways to stop climate change? 米 米 Want to help stop global warming? Here are 10 simple things you can 米 do and how much carbon dioxide you'll save doing them. **** 1. Change a light. ... 2. Drive less. ... 3. Recycle more. ... 4. Check your tires. ... 5. Use less hot water. ... 米 6. Avoid products with a lot of packaging. ... 米 7. Adjust your thermostat. ... **※** ************ 8. Plant a tree ***** 米 米 米 米 米 **※** 米 米米 * ************