

What are the solutions to climate change?

The solutions to climate change are listed below:

- (1) **Ending our reliance on fossil fuels:** The most important thing that we can do to combat climate change is to drastically reduce our consumption of fossil fuels. The burning of coal, oil, and natural gas in our buildings, industrial processes, and transportation is responsible for the vast majority of emissions that are warming the planet. We must replace coal, oil, and gas with renewable and efficient energy sources.
- (2) **Renewable energy:** Transitioning from fossil fuels to clean energy is the key to winning the fight against climate change. There are many sources of renewable energy. Solar energy is produced when light from the sun is absorbed by photovoltaic cells and turned directly into electricity. Unlike solar panels, which convert the sun's energy directly into electricity, wind turbines produce electricity more conventionally: wind turns the blades of a turbine, which spin a generator. Along with sunlight and wind, water—under certain conditions—can also be a source of renewable energy. For instance, geothermal energy works by drilling deep underground and pumping

extremely hot water up to the earth's surface, where it is then converted to steam that, once pressurized, spins a generator to create electricity.

- (3) **Switching to sustainable transport:** Petrol and diesel vehicles, planes and ships use fossil fuels. Reducing car use, switching to electric vehicles and minimizing plane travel will not only help stop climate change, it will reduce air pollution too.
- (4) **Sustainable buildings:** The energy used in our buildings—to keep the lights on and appliances running; to warm them and cool them; to cook and to heat water—makes them the single-largest source of carbon pollution. Making buildings more energy efficient, by upgrading windows and adding insulation to attics and walls, for example, will bring these numbers down. That's why it's all the more important that we raise public awareness of cost- and carbon-saving changes that individual can make in their homes and workplaces, and make it easier for people to purchase and install energy-efficient technology.
- (5) **Restore nature to absorb more carbon:** The natural world is very good at cleaning up our emissions, but we need to look after it. Planting trees in the right places or giving land back to nature through 'rewilding' schemes is a good place to start. This is because photosynthesizing plants draw down carbon dioxide as they grow,

locking it away in soils. Forests are crucial in the fight against climate change, and protecting them is an important climate solution. Cutting down forests on an industrial scale destroys giant trees which could be sucking up huge amounts of carbon. Yet companies destroy forests to make way for animal farming, soya or palm oil plantations. Governments can stop them by making better laws.

- (6) **Protect the oceans:** Oceans also absorb large amounts of carbon dioxide from the atmosphere, which helps to keep our climate stable. But many are overfished, used for oil and gas drilling or threatened by deep sea mining. Protecting oceans and the life in them is ultimately a way to protect ourselves from climate change.
- (7) **Improve farming and encourage vegan diets:** One of the best ways for individuals to help stop climate change is by reducing their meat and dairy consumption, or by going fully vegan. Businesses and food retailers can improve farming practices and provide more plant-based products to help people make the shift
- (8) **International cooperation between countries:** Climate change is a global emergency that goes beyond national borders. It is an issue that requires international cooperation and coordinated solutions at all levels.

Statement of AI use: no AI is used