Different types of renewable energy

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We know the threat of climate change is very real. Our Atmosphere now contains the highest level is very real. Burning fossil fuels contributes around 90% of the CO2 emissions attributed to climate change. As such, the switch to cleaner types of renewable energy is critical to prevent the worst impacts of climate change and global warming.

Technology is improving fast. As a result, renewable energy is more reliable and affordable. And it"s getting better all the time. Meanwhile, demand for renewable power is growing.

We can now see forward-thinking governments legislating in favor of renewable energy. In turn, the transition to renewable energy is gathering momentum. This progress is positive. And encouraging as shown below:

Renewable energy is energy sourced from natural resources that are in abundance, for example, the sun and the wind.

Traditionally we"ve relied on burning fossil fuels such as coal and processed crude oil to generate electricity. We"ve drilled and extracted these energy resources from the earth and burnt them to produce our electricity. Unlike renewable energy, fossil fuels are finite.

Researchers forecast that we will deplete our fossil fuel energy sources by 2060. While this may seem a long way off, we continue to burn fossil fuels, emitting vast amounts of CO2, the lead contributor to climate change.

Renewable energy sources do not produce air pollutants that harm the environment, and animal and human populations in the same way that burning fossil fuels does.

Renewable energy is on the rise, now accounting for 26% of global electricity generation. To meet net-zero targets, we need to accelerate this progress.

Sidenote: Many researchers and policymakers champion nuclear energy as critical to our transition away from fossil fuels and the clean energy revolution. However, as the raw fuel sources of uranium and plutonmium are technically not renewable resources, nuclear is not technically a type of renewable energy.

Hydroelectric power uses energy from the flow of water stored in dams and rivers. When released, the flow spins turbines. Turbines, in turn, generate electricity.

The history of hydropower dates back to 1771. Historians record the first use as an English mill. The mill used the energy from a nearby flowing river to spin cotton.

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Hydro-power is the largest renewable energy source in the world. It accounts for 71% of all renewable energy globally. This popularity is down to the fact that rivers almost always flow. Of course, the weather impacts the availability of the sun or wind. However, Hydropower generates electricity day and night, regardless of the season.

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