

Time is no longer running out to act on climate change; it's up, and the global economy is at a crossroads. But, if the world acts now to rapidly achieve net-zero emissions by mid-century, the transformation of the economy would set the world up for stronger economic growth by 2070."

Deloitte, Global Turning Point, 2022

The cost of inaction

HEALTH WEALTH

The estimated annual cost of climaterelated health issues.²

250K Additional deaths per year, from malnutrition, disease, and heat

stress alone.2

\$160B

In wages lost each year by 2090.3

Labor hours lost each year

by 2090.3 \$178T

WEATHER

Without action, climate change could

create \$178 trillion in global economic

losses in present-value terms by 2070.4

23.1 M

People per year are displaced due to severe weather events globally in the last decade.5

Increase in the cost of recovery

in the United States and 600%

Correlated with an increase of 1 degree Celsius in global temperature + a rise in carbon dioxide emissions.

from severe weather events

4-> increase in severe weather events costing \$1B+.6 1980

2020

EST 2027

Coal

unpredictability, healthcare costs, healthcare utilization and deaths. To mitigate the economic impacts, policies combating CO2 emissions and therefore temperature change are required.6 **Gregory Ciottone, MD** President of the World Association for Disaster and Emergency Medicine and Associate Professor at Harvard Medical School

An exponential relationship between carbon dioxide levels, temperature

and disasters could translate into increased disaster frequency, severity,

By the middle of the decade, renewable energy sources will surpass coal as a source of global electricity.7

2021

2015

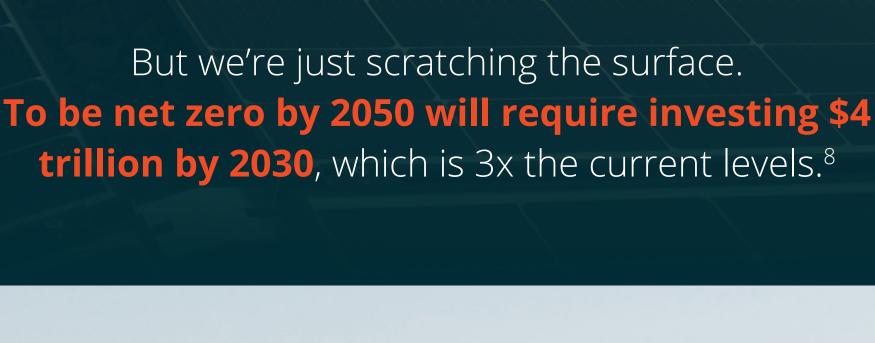
40% -

35%

30%

25%

Change is underway



Renewables

Antonio Guterres Secretary-General of the United Nations

The reward of action

Investment, innovation, and collaboration can change the world in terms of:

ENERGY EQUITY

Every country, city, financial institution and company should

adopt plans for transitioning to net zero emissions by 2050

and take decisive action now.9

775 million people around the world currently live without electricity.

We must protect the next generation by acting now. Investing in

clean and renewable solutions to support universal energy access is

how we can make real change. Clean cooking technologies in homes

and reliable electricity in health-care facilities can play a crucial role in

protecting the health of our most vulnerable populations.11

Dr. Tedros Adhanom Ghebreyesus

Director-General, World Health Organization

innovation = 2x the cost of global policies

to cut greenhouse gas emissions.¹²

Decentralized, renewable energy solutions

can tackle that inequity forever.¹⁰

IMPROVED GLOBAL HEALTH The value of health gains from energy

\$1.2T

Doubling renewable energy capacity by 2070

could reduce the cost of treating climate-

trillion and \$4.2 trillion annually.12

related health conditions by **between \$1.2**



terms by 2070.14

\$43T 65M 3X Every dollar of investment in Collaborative and coordinated renewables creates 3x more climate action in pursuit of net jobs than in the fossil fuel zero could increase the size industry.¹³ of the world economy by \$43 trillion in net present-value

The reduction in pollution-related illness

What's next It's time to act if we are to unlock the infinite environmental, economic, and social potential of a net-zero future. It's time to work together to change energy systems forever.

Explore our thriving ecosystem of thinkers, doers and investors committed to changing how energy is produced and consumed.

Are you a data scientist, geoscientist, climate innovator or investor who's ready to

play your part in accelerating energy innovation? Then you are ready for Onward.

Join our platform for change

ThinkOnward.com

onward 100%

- https://www.who.int/news-room/fact-sheets/detail/climate-change-and-health
- https://news.climate.columbia.edu/2019/06/20/climate-change-economy-impacts/ $\underline{https://www2.deloitte.com/content/dam/Deloitte/nl/Documents/sustainability/deloitte-nl-work-toward-net-zero-nov22.pdf$ https://www.un.org/en/climatechange/science/causes-effects-climate-change https://phys.org/news/2023-04-natural-disasters-co2-global-temperature.html

https://www.un.org/sites/un2.un.org/files/fast_facts_-renewable_energy_oct_2022.pdf

https://www.un.org/en/climatechange/un-secretary-general-speaks-state-planet

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https://www.iea.org/data-and-statistics/charts/global-electricity-generation-by-technology-2015-2021-and-2027

- increase-in-2022

11. https://www.worldbank.org/en/news/press-release/2023/06/06/basic-energy-access-lags-amid-renewable-opportunities-new 12. https://www.un.org/en/climatechange/science/key-findings

The transition toward net zero

could create up to **65 million**

new low-carbon jobs.¹⁵

13. https://www.un.org/sites/un2.un.org/files/fast_facts_-renewable_energy_oct_2022.pdf 14. https://www.deloitte.com/global/en/issues/climate/global-turning-point.html 15. https://www.un.org/en/climatechange/science/key-findings