

A billion deaths from global warming?

Richard Parncutt, 18.9.2023, updated 4.1.2024

In August and September 2023, >180 news reports (listed below) appeared in >32 countries and >18 languages in response to the following publication:

Pearce, J. M., & Parncutt, R. (2023). Quantifying Global Greenhouse Gas Emissions in Human Deaths to Guide Energy Policy. *Energies*, 16(16), 6074.

<https://www.mdpi.com/1996-1073/16/16/6074>

The publication's main message: Global warming of 2°C, caused by burning a trillion tonnes of fossil carbon since the industrial revolution, will cause roughly a billion premature human deaths over roughly a century. Therefore, burning 1000 tonnes of fossil carbon causes a future death (1000-tonne rule). Hundreds of millions of lives could be saved by implementing the following policies:

- i. ban the extraction of all fossil fuels,
- ii. revoke the charters of fossil fuel companies and disperse their assets,
- iii. retrain fossil-fuel workers en masse for renewable energy jobs,
- iv. undercut fossil fuel regimes by giving renewable energy technologies to their citizens,
- v. promote open-source technologies to erode the economies of fossil-fuel regimes,
- vi. make mass purchases of energy conservation or renewable energy technologies and make them freely available to all citizens,
- vii. ban the sale of fossil fuel vehicles or even ban all cars,
- viii. ban natural gas stoves or even boilers,
- ix. only allow development of net zero or positive energy buildings,
- x. tax all fossil fuel-related investments at 100%, and
- xi. hold climate emitters as well as investors economically liable for harm caused by carbon emissions in the future.

The foundations for the death toll estimates had been developed here:

Parncutt, R. (2019). The human cost of anthropogenic global warming: semi-quantitative prediction and the 1,000-tonne rule. *Frontiers in Psychology*, 10, 2323.

<https://www.frontiersin.org/articles/10.3389/fpsyg.2019.02323/full>

Many of the reports are automatically listed here:

<https://mdpi.altmetric.com/details/153400935/news>

The reports were in many languages including Croatian, English, French, Georgian, German, Greek, Hindi, Hungarian, Indonesian, Italian, Korean, Persian, Portuguese, Punjabi, Russian, Spanish, Turkish, and Ukrainian.

The paper was cited on the following English Wikipedia pages: Climate Justice, 2023 in Climate Change, CO2-Bilanz, Richard Parncutt, Joshua Pearce.

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Knowridge Science Report

<https://knowridge.com/2023/09/1-billion-lives-at-risk-if-we-dont-act-on-climate-change-new-study-warns/>

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Moment.at (German)

<https://www.moment.at/story/klimakrise-1-milliarde-tote-studie>

BELGIUM

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<https://traveltomorrow.com/one-billion-people-at-risk-of-dying-due-to-climate-change-study-claims/>

BRAZIL

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Tecmundo (Portuguese)

<https://www.tecmundo.com.br/ciencia/269098-mudanca-climatica-causar-bilhao-mortes-2100-diz-cientista.htm>

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Journal de Montréal (French)

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Journal de Québec (French)

<https://www.journaldequebec.com/2023/09/01/changements-climatiques-un-milliard-de-personnes-pourraient-mourir-dici-la-fin-du-siecle>

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Weekly Voice

<https://weeklyvoice.com/global-temperature-rise-to-2-degrees-celsius-may-cause-1-bn-deaths-study/>

Western University

<https://news.westernu.ca/2023/08/climate-change-human-deaths/>

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Biobiochile (Spanish)

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<https://www.eltiempo.com/vida/medio-ambiente/predicen-mil-millones-de-muertes-ocasionadas-por-el-cambio-climatico-el-proximo-siglo-800668>

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<https://www.repreTel.com/noticia/el-cambio-climatico-puede-causar-1-000-millones-de-muertes-prematuras/>

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