

IS 5G GREEN?



TELECOMS COMPANIES
CLAIM IT IS
RESEARCH SHOWS
THE OPPOSITE

- Inside:**
- What you need to know
 - What you can do to protect your health and the environment
 - How to avoid having masts outside your home
 - How to stay safely connected

Human societies do not have an urgent need for 5G. What people need now is broadband, and the main content of 5G is not broadband.

~ Huawei founder Ren Zhengfei

TOP 5G FACTS: ENVIRONMENT & WILDLIFE

Each 5G mast requires approximately 3 x more power than a 4G mast (as much as 73 typical homes). (1, 2)



With 5G added, electricity usage from telecommunications could create up to 23% of global greenhouse gas emissions by 2030; (3) power demand would be the equivalent of 36 nuclear reactors or 7800 massive offshore wind farms worldwide. (4)

The France, Spain and California Green Parties, the France Climate Change Council, and Greenpeace East Asia have all warned of the power-hungry nature of 5G. (5, 6)



Research shows that manmade RF radiation (RFR) may be seriously harmful to wildlife, including bees. (7, 8, 9, 10)
The British Ecological Society has identified RFR as a top emerging issue affecting natural diversity and conservation. (11)

'Smart' 5G devices and automated cars require extensive mining of heavy metals such as lithium, causing environmental damage, as well as silicon microprocessors which cause toxic waste.



5G deployment will require tens of thousands of satellites, with chemical reactions from rocket exhaust and greatly increased microwave levels in our atmosphere.

5G will entail densely-placed masts and cells to create a 'blanket' of 'electrosmog', particularly in urban environments.

5G may require the mass felling of trees, since leaves block the signal from some frequencies used for 5G.



Telecommunications companies claim that 5G could be used to develop solutions to environmental problems, but have been accused by legal firm Client Earth and others of 'greenwashing.' (12, 13)



Physicians for Safe Technology have stated that wireless radiation is being increasingly recognised as an environmental pollutant. (14)

Experts have warned that RFR encourages drug resistance in microbes. (15)

NB: 5G will enable mass surveillance and data collection; experts say 5G is unnecessary for technological progress and is not consumer-driven. (16, 17)

TOP 5G FACTS: HEALTH

An article in leading medical journal

The Lancet states that the majority of studies show that RFR from masts and devices is harmful to health (the good news: ethernet and wired solutions are far safer and can provide fast connectivity). (18)

An article in *The British Medical Journal* calls for a halt to the 5G rollout and outlines reproductive, oncological, neuropsychiatric, immunological, DNA alteration, gene expression and antibiotic resistance risks of RFR. (19)

Leading experts have asked the World Health Organisation to categorise manmade RFR as a Class 1 carcinogen. (20)



In a landmark 2021 court case, US judges ruled that the substantial evidence showing harm from RFR and 5G has been ignored. (21)

In the UK, top human rights lawyer Michael Mansfield QC and his team have submitted evidence showing serious harm from phone masts. (22)



The \$30 million US National Toxicology Program and Ramazzini Cancer Research studies showed 'clear evidence' of cancer from RFR. (23, 24)

A Consensus Statement from PHIRE Medical declaring that RFR from masts and devices causes biological harm has been signed by/on behalf of 3,500 medical and scientific experts. (25)

An EU Parliament report has called for a 5G moratorium on health grounds. (26)

Insurance companies compare RFR with asbestos and tobacco as an emerging risk and will not insure for health damage. (27)



Public Health England does not itself review RFR research, but follows guidelines set by ICNIRP, a private body ruled biased by two EU courts and shown by MEPs to have conflicts of interest. (28)

The Swiss expert group on radiation, BERENIS, published a 2021 paper showing that RFR may be particularly harmful to children. (29)



Many studies show ill health from telecommunications base stations, including neurological damage and cancer. (30, 31)

5G, or 'fifth generation technology', encompasses both low-frequency RFR (similar to 4G) and high-frequency mm waves. Research shows that high-frequency mm waves can cause biological harm. (32)

WHAT WE ARE ASKING FOR:

All phone masts should be kept to a minimum and emissions should be regulated by competent, genuinely independent bodies.

Phone masts should not be placed near homes, schools or areas of natural beauty and biodiversity.

Internet connections in schools should be wired, not wireless.

Studies showing harm to wildlife from RFR should be given urgent attention.

There should be an immediate moratorium on 5G deployment.

WHAT YOU CAN DO:

Write to MPs, councillors and green groups using the information and template letters at www.rfinfo.co.uk.

Check for mast applications online and send objection letters to local planning officers. Objection letters, which have already helped block many masts, are available at www.rfinfo.co.uk.

Follow the UK legal action, headed by human rights barrister Michael Mansfield QC, at actionagainst5g.org and please consider donating.

Write to your MP protesting against the government plan to remove the requirement for planning permission for 5G masts.

Write to your MP asking for safe, efficient connectivity from fast, wired broadband and fibre optic solutions; these also require less power.

Reduce exposure by minimising mobile phone use and turning WiFi off at night; EMF readers will help you identify radiation 'hot spots' in your home.

References available at: www.rfinfo.co.uk

