



The Question of 5G

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The information contained herein are not opinions of the writer but is found in the public domain, can be researched by anyone, cannot be considered full and complete and has particular focus on the deployment in New Zealand with the purpose of allowing more knowledge and transparency being shared to the general public.

Acknowledgements

To the many, many scientists around the world who have been desperately trying to alert those in influential places to make changes and that caution must be adhered to, mentioned in the links of this document, but have basically been ignored.

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The Question of 5G.

For better connectivity

.....or for more control and surveillance?

Abstract

The fifth generation, 5G, of radiofrequency (RF) radiation was implemented globally in 2020, without investigating the risks to human health and the environment. This has created debate among concerned individuals in numerous countries. In an appeal to the European Union (EU) in September 2017, currently endorsed by >390 scientists and medical doctors, a moratorium on 5G deployment was requested until proper scientific evaluation of potential negative consequences has been conducted. This request has not been acknowledged by the EU.

The evaluation of RF radiation health risks from 5G technology was ignored in a report by a government expert group in Switzerland and a recent publication from the International Commission on Non-Ionizing Radiation Protection (ICNIRP). Conflicts of interest and ties to the telecommunications industry seem to have contributed to the biased reports. The lack of proper unbiased risk evaluation of the 5G technology places populations at risk. Furthermore, there seems to be a cartel of individuals monopolizing evaluation committees, thus reinforcing the no-risk paradigm. We believe that this activity should qualify as scientific misconduct.¹

¹ Hardell L, Carlberg M. Health risks from radiofrequency radiation, including 5G, should be assessed by experts with no conflicts of interest. *Oncol Lett.* 2020 Oct;20(4):15. doi: 10.3892/ol.2020.11876. Epub 2020 Jul 15. PMID: 32774488; PMCID: PMC7405337.

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1. Introduction: Major players in New Zealand.

What institutions and individuals are involved with advisory aspect and physical rollout of 5G in New Zealand? The role they play.

WHO: The World Health Organization (WHO) is a specialized agency of the United Nations (UN) which coordinates responses to international public health issues and emergencies . It is the largest intergovernmental health organization at the international level.²

They have followed the guidelines recommended by:

- The International Commission on Non-Ionizing Radiation Protection and, (ICNIRP)
- The Institute of Electrical and Electronics Engineers, through the International Committee on Electromagnetic Safety

These guidelines are not technology-specific.³

ICNIRP: ICNIRP is a non-governmental organization (NGO) based in Germany. Members are selected via an internal process, and the organization lacks transparency and does not represent the opinion of the majority of the scientific community involved in research on health effects from RF radiation.⁴

The Institute of Electrical and Electronics Engineers: The Institute of Electrical and Electronics Engineers (IEEE) is a leading organization in the development of standards for various technologies, including 5G. Their involvement is crucial in shaping the guidelines and protocols that govern the deployment and use of 5G technology.

Ministry of Health (MOH NZ): The New Zealand Ministry of Health follows the recommendations of WHO and ICNIRP.

The Ministry of Health *Interagency Committee on the Health Effects of Non-Ionising Fields* advises that the New Zealand standard is based on the best available international advice and the Ministry of Health regularly reviews ICNIRP's advice. 154 NZS 2772.1:1999 Radiofrequency fields - Maximum exposure levels - 3kHz to 300 GHz.⁵

However, that Interagency Committee does not undertake systemic, evidence-based based reviews using a robust method, such as the National Toxicology Program in the USA would use. Nor does it assess whether chronic long-term exposures cause harm at non-thermal levels, particularly to vulnerable people and children. Such reviews would – following a transparent democratic process – be opened to public consultation. This does not happen.

² https://en.wikipedia.org/wiki/World_Health_Organization

³ <https://www.who.int/news-room/questions-and-answers/item/radiation-5g-mobile-networks-and-health>

⁴ Hardell L, Carlberg M. Health risks from radiofrequency radiation, including 5G, should be assessed by experts with no conflicts of interest. *Oncol Lett.* 2020 Oct;20(4):15. doi: 10.3892/ol.2020.11876. Epub 2020 Jul 15. PMID: 32774488; PMCID: PMC7405337.

⁵ <https://www.tcd.govt.nz/Our-Community/Community-concerns-with-cellphone-sites-and-technologies>

Instead, the committee produces *Reports to Ministers* where the scientific evidence is selected by members, frequently reflecting the same logic and reasoning of ICNIRP.^{6 7}

Yet ICNIRP also does not undertake systemic, evidence-based reviews using a robust method, such as the National Toxicology Program in the USA would use. Nor does ICNIRP assess whether chronic long-term exposures cause harm at non-thermal levels, particularly to vulnerable people and children.

Due to an absence of funding pathways there is a abroad absence of research expertise across the New Zealand health system and the academic sector, concerning the human health biological effects from electromagnetic fields. In effect, lacking a trustworthy scientific process or demonstrable health expertise - the science is deferred to ICNIRP who maintain that the health risk evidence for non-thermal exposures is inconclusive. This means that ICNIRP consider the non-thermal scientific evidence is not applicable for integration into policy and regulation to protect human health – and this is the group that the Ministry of Health ultimately defer to, to say the same thing.

NES-TF: The NES-TF provides a national framework of rules for the deployment of telecommunications infrastructure. It allows network operators to install a wide range of low impact telecommunications infrastructure, such as cell phone towers, without the need to apply for resource consent, provided they meet certain conditions.

Under NESTF standards, as long as companies meet the standards and also comply with the relevant District Plan restrictions, they are able to decide where cellphone towers are erected – including on public road reserves owned by Council, in both urban and rural areas. This means Council is unable to intervene in or prevent companies from erecting cellphone towers where they choose to do so.⁸

NZS 2772.1's limits are recommended by the International Commission on Non-Ionizing Radiation Protection (ICNIRP), which the World Health Organization (WHO) recognizes for its independence and expertise in this area. Compliance with the limits is mandated under the NES-TF 2016.⁹

The Ministry of Business, Innovation and Employment (MBIE) oversees the NES-TF regulation. Recent changes did not include consideration of safety or chronic exposures, as the evidence for safety is claimed to be addressed by the Ministry of Health.

Following [Cabinet approval](#) in May 2024 MBIE started the process of amending the NES-TF standards through the [Telecommunications Amendment Bill and Telecommunications and Other Matters Amendment Bill](#).¹⁰ The Telecommunications and Other Matters Amendment Bill is intended to change the parent legislation (primarily the Telecommunications Act 2001 and related Acts) to make telecommunications deployment easier and more efficient.

The Bill is yet to pass into law.

⁶ Ministry of Health. 2018. Interagency Committee on the Health Effects of Non-ionising Fields: Report to Ministers 2018. Wellington: Ministry of Health. Page 4. <https://www.health.govt.nz/system/files/2018-11/interagency-committee-health-effects-non-ionising-fields-report-ministers-2018.pdf>

⁷ Ministry of Health. 2022. Interagency Committee on the Health Effects of Non-ionising Fields: Report to Ministers 2022. <https://www.health.govt.nz/publications/interagency-committee-on-the-health-effects-of-non-ionising-fields-report-to-ministers-2022>

⁸ <https://www.rangitikei.govt.nz/news/2021/vodafone-tower-in-marton>

⁹ <https://www.tcdc.govt.nz/Our-Community/Community-concerns-with-cellphone-sites-and-technologies>

¹⁰ <https://bills.parliament.nz/v/6/2a142c71-babb-45eb-38eb-08de1017e271?lang=en&Tab=history>

The November [Regulatory Impact Statement](#)¹¹ did not discuss health and safety. The [Amendment Bill](#), received only 28 submissions:

‘MBIE publicly consulted on telecommunications regulatory matters and options for a period of six weeks. MBIE received 28 submissions from telecommunications stakeholders and relevant advocacy groups. MBIE further engaged with some stakeholders during the consultation period.’¹²

The Government's long-term objective has been to make telecommunications infrastructure easier and faster to deploy. That objective has been pursued through several different legal mechanisms over time:

- amendments to telecommunications legislation (Acts of Parliament);
- amendments to planning regulations (the NES-TF);
- national policy statements and other RMA national direction.

Therefore, over the same time period [another consultation occurred](#), concerning the *National Environmental Standards (NES) for Telecommunication Facilities* (secondary legislation). These were originally made under the Resource Management Act 1991. While the Ministry for the Environment used to supervise these regulations prior to 2016, MBIE took over in 2016, using secondary legislation to achieve this.¹³

Therefore, in addition to the [Amendment Bill](#), MBIE and the Ministry for the Environment opened a [NES-TF consultation](#) to change specification details and increase access for telecommunications installation. None of the consultation processes took into account the safety of any changed measures, because the safety was presumed, based on the work of the *Interagency Committee* (discussed above).

It's important to recognise that these recent law changes and the regulations have been claimed to be safe because they are based on the *Interagency Committee* position – which is the position of the Ministry of Health and New Zealand government. The Committee claims that New Zealand aligns with best practice. This can be seen, for example, in the [Regulatory Impact Statement](#) discussed above.:

Health New Zealand and the Interagency Committee on the Health Effects of Non-Ionising Fields advise that NZS 2772.1:1999 aligns with international best practice and remains fit for purpose. ([May 2026 Report, page 189](#))¹⁴

SPARK: Spark is actively involved in the deployment and expansion of 5G networks in New Zealand, partnering with Nokia to enhance its 4G and 5G infrastructure across key cities. They offer 5G services included in all their mobile plans at no extra cost for a limited time, aiming to provide faster data speeds and improved connectivity for users.¹⁵

¹¹ <https://www.regulation.govt.nz/assets/RIS-Documents/Regulatory-Impact-Statement-Improving-telecommunications-regulatory-and-funding-frameworks.pdf>

¹² <https://www.mbie.govt.nz/dmsdocument/31590-telecommunications-amendment-bill-and-telecommunications-and-other-matters-amendment-bill-approval-for-introduction-proactiverelase-pdf?>

¹³ <https://www.legislation.govt.nz/secondary-legislation/pco-drafted/2016/281/en/latest/#DLM6697001>

¹⁴ Ministry for the Environment. 2026. National Environmental Standards for Electricity Transmission Activities and National Environmental Standards for Telecommunication Facilities: Report on Recommendations and Decisions. ME 1970. Wellington: Ministry for the Environment. <https://environment.govt.nz/assets/publications/NES-ETA-and-NES-TF-Report-on-recommendations-and-decisions.pdf?>

¹⁵ <https://www.spark.co.nz/shop/mobile-plans/5g-mobile>

CONNEXA: Connexa is New Zealand's leading mobile tower infrastructure company, connecting communities from Cape Reinga to Bluff through the country's most extensive network of over 2,500 mobile sites.¹⁶ They claim:

"It's important to Connexa that communities are informed about our plans. So we send letters to residents close to mobile towers before installation or upgrades, providing details about our plans and what the finished site will look like."¹⁷

This has not happened.

The Ministry of Business, Innovation and Employment (MBIE): is responsible for establishing the telecommunications regulatory environment, including setting the rules within which telecommunications companies operate. MBIE is also responsible for making frequency bands available for new uses, including bands for the 5G network.

MBIE acknowledge the vital role that local government plays in administering, managing, monitoring and enforcing the Resource Management Act 1991 (RMA). National Environmental Standards (NES) have been developed to ensure a consistent standard for an activity or resource, providing rules that balance the needs of the various parties involved.¹⁸

District Councils: The District Council is responsible for reviewing and approving applications for 5G towers, ensuring they comply with local regulations and community standards. This includes assessing the potential impact on the environment and public health. Councils must put NES into practice through their plans, and then enforce them.¹⁹

2. International bodies that make the recommendations to Governments worldwide.

ICNIRP (International Commission for Non-Ionising Radiation)

ICNIRP is a **German-registered private association** of scientists that, soon after its 1992 inception, became the *de facto* global standard-setter for radiofrequency (RF) radiation limits. Most European governments and even the World Health Organization (WHO) – rely on ICNIRP's guidelines when adopting national exposure limits. They provide recommendations to WHO with regard to wireless technologies. They are not a publicly elected advisory body.

ICNIRP was launched in 1992 at the initiative of Michael Repacholi, who served as its first chairman until 1996.²⁰

The World Health Organization (WHO) established the International Electromagnetic Fields (EMF) Project in 1996. WHO established the [International EMF Project](#) in 1996 to assess the scientific evidence of possible health effects of EMF in the frequency range from 0 to 300 GHz. The EMF Project

¹⁶ <https://connexa.co.nz/about-us>

¹⁷ <https://connexa.co.nz/community-1>

¹⁸ <https://www.tcdc.govt.nz/Our-Community/Community-concerns-with-cellphone-sites-and-technologies>

¹⁹ <https://www.tcdc.govt.nz/Our-Community/Community-concerns-with-cellphone-sites-and-technologies>

²⁰ Melnick, R.L., Moskowitz, J.M., Héroux, P. et al. The WHO-commissioned systematic reviews on health effects of radiofrequency radiation provide no assurance of safety. *Environ Health* 24, 70 (2025). <https://doi.org/10.1186/s12940-025-01220-4>

encourages focused research to fill important gaps in knowledge and to facilitate the development of internationally acceptable standards limiting EMF exposure.²¹

The WHO's EMF Project was founded in 1996 by Michael Repacholi, who was also one of the founders of the International Commission on Non-Ionizing Radiation Protection (ICNIRP). The EMF project investigates the health impact of exposure to electric and magnetic fields in the frequency range 0-300 GHz and advises national authorities on EMF radiation protection.

The institutional history of the WHO EMF Project cannot be properly understood without acknowledging Repacholi's founding role and his simultaneous position at the helm of ICNIRP.

Repacholi had taken up the position at WHO in Geneva in 1995. In May 1996 resigned from ICNIRP due to the conflict of interest of working for both WHO and ICNIRP simultaneously and was elected an Emeritus member of ICNIRP.²²

3. WHO comments do not take account of non-thermal radiation

To date, (published 27th February ,2020) WHO states:

“after much research performed, no adverse health effect has been causally linked with exposure to wireless technologies... but, so far, only a few studies have been carried out at the frequencies to be used by 5G.”

Tissue heating (thermal, no mention of non-thermal radiation) is the main mechanism of interaction between radiofrequency fields and the human body. Radiofrequency exposure levels from current technologies result in negligible temperature rise in the human body.

The WHO claims:

“As the frequency increases, there is less penetration into the body tissues and absorption of the energy becomes more confined to the surface of the body (skin and eye). Provided that the overall exposure remains below international guidelines, ***no consequences for public health are anticipated.***” ... it is not known.²³

(WHO has not referred to the effect of non-thermal Radiation).

“Currently, exposure from 5G infrastructures at around 3.5 GHz is similar to that from existing mobile phone base stations. With the use of multiple beams from 5G antennas, exposure could be more variable as a function of location of the users and their usage. Given that the 5G technology is currently at an early stage of deployment, the extent of any change in *exposure to radio-frequency fields is still under investigation.*”²⁴

²¹ https://www.who.int/health-topics/electromagnetic-fields#tab=tab_2

²² https://en.wikipedia.org/wiki/Michael_Repacholi

²³ WHO Feb 27, 2020. Radiation: 5G mobile networks and health <https://www.who.int/news-room/questions-and-answers/item/radiation-5g-mobile-networks-and-health>

²⁴ <https://www.who.int/news-room/questions-and-answers/item/radiation-5g-mobile-networks-and-health>

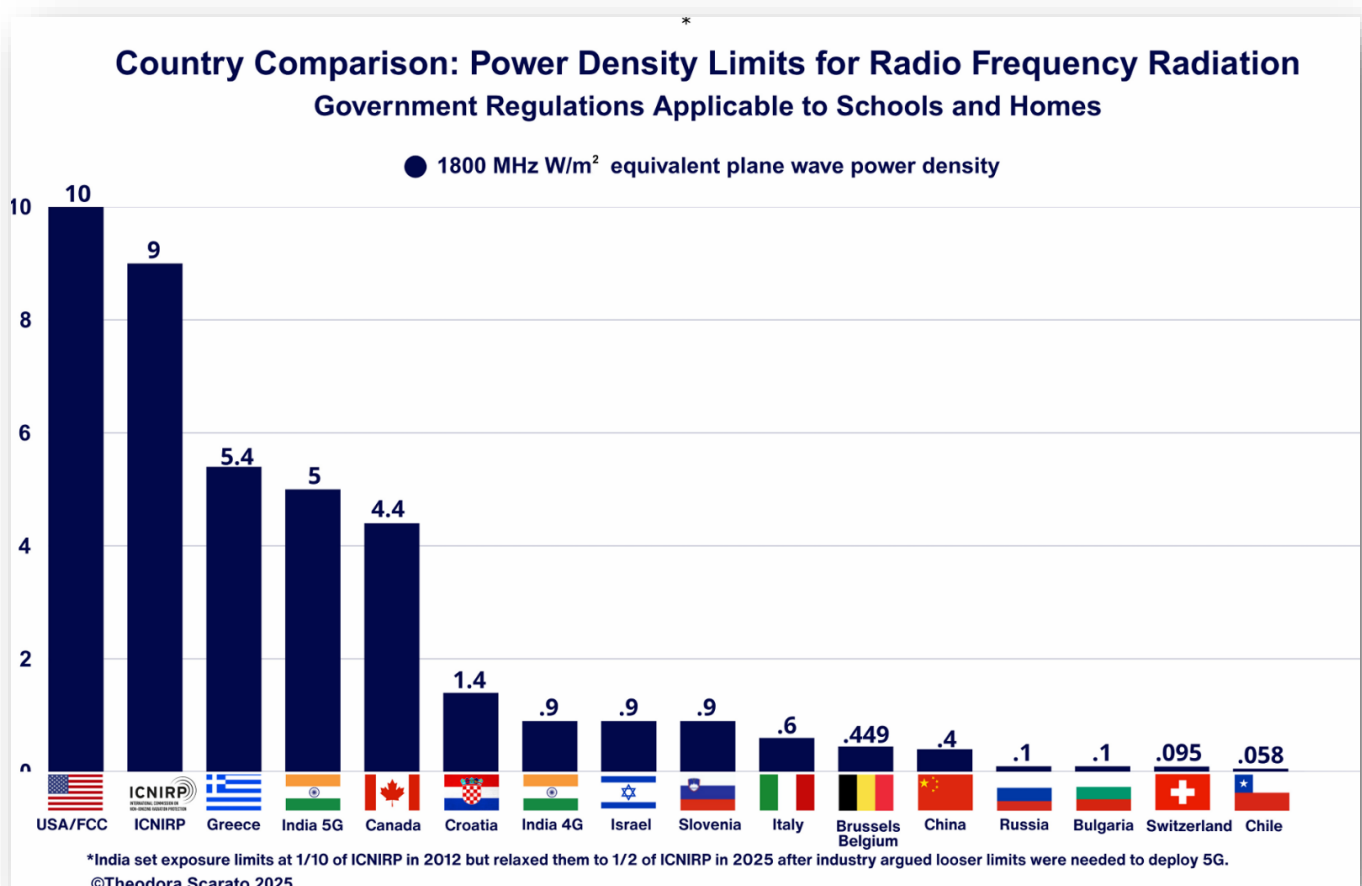
4. Studies that have been carried out at the 5G frequencies and related Health effects.

ICNIRP provides scientific advice and guidance on the health and environmental effects of non-ionizing radiation (NIR) to protect people and the environment from detrimental NIR exposure.

WHO established the International Electromagnetic Fields (EMF) Project in 1996. The project investigates the health impact of exposure to electric and magnetic fields in the frequency range 0-300 GHz. They have ignored the studies completed over many years by independent scientists.

WHO advocates for further research into the possible long-term health impacts of all aspects of mobile-telecommunications.²⁵

1. Countries that set limits based on ICNIRP recommendations have among the highest permitted radiation in the world. The only country that has more permitted radiation is the USA.



Scarato 2025, U.S. policy on wireless technologies and public health protection. DOI 10.3389/fpubh.2025.1677583

2. The effects of radiation may be classified into non-thermal and thermal.²⁶ However ICNIRP recommendations do not take into account non-thermal effects. human exposure limits for RFR

²⁵ <https://www.who.int/news-room/questions-and-answers/item/radiation-5g-mobile-networks-and-health>

²⁶ Jayaraju et al 2023. Mobile phone and base stations radiation and its effects on human health and environment: A review <https://www.sciencedirect.com/science/article/pii/S2773032822000311>

are referred to as thermal limits because they are designed primarily to address the effects of heating.²⁷

3. The WHO only considered: "Tissue heating is the main mechanism of interaction between radio frequency fields and the human body."²⁸
4. The non-thermal effects are three to four times more hazardous than the thermal.²⁹
5. Power densities produced by 5G/4G LTE antennas can be 10 to 100 times higher than older networks, and hot spots have been documented on the street close to "small cell" antennas. Smaller mammals, children and insects are differently affected by these power densities.³⁰
6. International Agency for Research on Cancer (IARC), 31 May 2011, made a press release that the WHO/International Agency for Research on Cancer (IARC) has classified radio-frequency electromagnetic fields as possibly carcinogenic to humans.³¹
7. India following the Environmental protection act 1986, the installation of cell towers and base Station Antennas should be at 300 m away from residential buildings and antennas should not directly face the building, and they may be avoided from schools and hospitals because children and patients are more susceptible to EMFs.^{32 33}
8. The following health symptoms have been identified as adverse health effects of EMF radiation: Reduced sperm motility, sleep disturbance, feeling of discomfort, depression, visual disruptions, hearing disruptions, tinnitus, cardiovascular, loss of appetite, nausea, fatigue, headaches, difficulty in concentration, memory loss, irritability, skin problems. dizziness, movement difficulties.³⁴
9. In 2016, before the roll out of 5G in New Zealand, two U.S. government reports from the 1970s to 1980s provide evidence that the more commonly reported changes are sleep disturbance/insomnia, headache, depression/depressive symptoms, fatigue/tiredness, dysesthesia, concentration/attention dysfunction, memory changes, dizziness, irritability, loss of appetite/body weight, restlessness/anxiety, nausea, skin burning/tingling/dermographism and EEG changes.³⁵
10. The mechanism of action of microwave EMFs, the role of the VGCCs in the brain, the impact of non-thermal EMFs on the brain, extensive epidemiological studies performed over the past 50 years, and five criteria testing for causality, all collectively show that various **non-thermal** microwave EMF exposures produce diverse neuropsychiatric effects. (Summary from Pall 2016).³⁶
11. Dr. Martin Pall, Professor Emeritus of Biochemistry at Washington State University, who has been a vocal advocate for more research into this area, stated:

²⁷ Scarato T (2025) U.S. policy on wireless technologies and public health protection: regulatory gaps and proposed reforms. *Front. Public Health* 13:1677583. doi: 10.3389/fpubh.2025.1677583

²⁸ <https://www.who.int/news-room/questions-and-answers/item/radiation-5g-mobile-networks-and-health>

²⁹ Jayaraju et al 2023. Mobile phone and base stations radiation and its effects on human health and environment.

³⁰ Scarato T (2025) U.S. policy on wireless technologies and public health protection: regulatory gaps and proposed reforms. *Front. Public Health* 13:1677583. doi: 10.3389/fpubh.2025.1677583

³¹ https://www.iarc.who.int/wp-content/uploads/2018/07/pr208_E.pdf

³² WWW.TV9/30minutes.com

³³ Jayaraju et al 2023. Mobile phone and base stations radiation and its effects on human health and environment.

³⁴ Ibid

³⁵ Pall, M.L., 2016. Microwave frequency electromagnetic fields (EMFs) produce wide- spread neuropsychiatric effects including depression. *J. Chem. Neuroanat.* 75 (Pt B), 43–51. DOI: 10.1016/j.jchemneu.2015.08.001.

³⁶ Pall M. 2016. Microwave frequency electromagnetic fields (EMFs) produce wide- spread neuropsychiatric effects including depression

“EMFs can activate voltage-gated calcium channels in our cells, leading to increased oxidative stress and potential damage to our neurons. This mechanism could explain many of the neurological symptoms reported by individuals who are sensitive to EMF radiation.”³⁷

12. A 2025 survey by Open Access Government estimated that 1.6% to 3% of people in Europe consider themselves hypersensitive, with symptoms mirroring those reported near 5G transmitters.³⁸
13. Current standards don't address perceived **non-thermal** effects that some believe affect sensitive individuals.³⁹
14. At higher frequencies, 5G networks will use a greater number of base stations and of connected objects.⁴⁰
15. 5G will further employ beam-forming antennas to focus signals more efficiently towards the device in use.⁴¹
16. US Patent WO 2020 060606 indicates that the “device” in use is in fact the human body to which a task has been provided by a Server (via 5G).⁴²
17. Human body activity data is then communicated back to the server via the 5G network.⁴³
18. Cell Tower Radiation Can Cause Nutritional Collapse In Honeybees After 1 Hour Of Exposure.⁴⁴

5. Effects of Exposure to Electromagnetic Fields: Thirty years of research.

Summary of Results (Last major update: June 8, 2026) curated by Joel Moskowitz, Ph.D., School of Public Health, University of California, Berkeley.⁴⁵

Radiofrequency radiation (RFR)

89% (n=390) of 438 RFR oxidative effects (or free radical) papers published since 1997 reported significant effects including 96% (n=110) of 114 studies with a SAR (specific absorption rate) ≤ 0.40 watts per kilogram (which is ten times less than the 4.0 W/kg threshold of harm that the FCC and the ICNIRP use to base their RFR exposure limits).

³⁷ EHT. December 17, 2024. “The Invisible Poison: Unmasking the Health Risks of EMF Radiation” by the European Business Review <https://ehtrust.org/the-invisible-poison/>

³⁸ Less EMF. June 20, 2025. Current EMF Exposure Legislation: Is It Enough for Electrically Hypersensitive Individuals? <https://lessemf.com/knowledgebase/current-emf-exposure-legislation-is-it-enough-for-electrically-hypersensitive-individuals/>

³⁹ Ibid.

⁴⁰ WHO Feb 27, 2020. Radiation: 5G mobile networks and health <https://www.who.int/news-room/questions-and-answers/item/radiation-5g-mobile-networks-and-health>

⁴¹ Ibid.

⁴² <https://patentimages.storage.googleapis.com/11/a4/fe/095b0d0459d9c4/WO2020060606A1.pdf>

⁴³ Ibid.

⁴⁴ Scientists In Poland Discover Cell Tower Radiation Can Cause Nutritional Collapse In Honey Bees After 1 Hour Of Exposure. <https://spiritsciencecentral.com/scientists-in-poland-discover-cell-tower-radiation-can-cause-nutritional-collapse-inhoney-bees-after-1-hour-of-exposure/>

⁴⁵ Safer EMR. Tuesday, June 9, 2026. Effects of Exposure to Electromagnetic Fields: Thirty years of research <https://www.saferemr.com/2018/02/effects-of-exposure-to-electromagnetic.html>

72% (n=396) of 550 RFR genetic effects papers published since 1990 reported significant effects including 192 (84%) of 228 studies of gene expression.

78% (n=396) of 507 RFR neurological papers published since 2007 reported significant effects.

85% (n=354) of 415 RFR reproduction and development papers published since 1990 reported significant effects. Among the low-intensity exposure studies that reported significant effects, 73 studies used an exposure with a SAR $\leq$ 0.40 W/kg and 53 studies had a SAR $\leq$ 0.08 W/kg.

260 low-intensity RFR exposure studies (SAR < 0.40 W/kg) published since 1990 reported significant effects.

Extremely low frequency (ELF) and static electromagnetic fields

90% (n=319) of 353 ELF/static EMF oxidative effects (or free radical) papers published since 1990 reported significant effects.

84% (n=363) of 424 ELF/static EMF genetic effects papers published since 1990 reported significant effects including 92% (n=232) of 252 studies of gene expression.

92% (n=364) of 397 ELF/static EMF neurological papers published since 2007 reported significant effects.

78% (n=82) of 105 ELF/static EMF reproduction and development papers published since 1990 reported significant effects.⁴⁶

The field of research is expanding rapidly. A PubMed search identified approximately 326,000 peer-reviewed publications relating to EMFs and human health published between 2016 and 2025.⁴⁷

6. What are the recommended ICNIRP “safe” levels?

ICNIRP Recommended Guidelines for EMF Exposure. ICNIRP uses a two-step system. The first step sets limits on the amount of electromagnetic energy or induced electrical activity that should occur inside the body (Basic Restrictions). Because these internal quantities cannot usually be measured directly, ICNIRP also provides external Reference Levels, such as electric field strength or power density, that can be measured with instruments. If the external measurements remain below the Reference Levels, ICNIRP considers the internal Basic Restrictions to be satisfied under normal circumstances.^{48 49}

ICNIRP states that its guidelines are designed to protect against established adverse health effects, principally acute nerve stimulation from low-frequency fields and excessive tissue heating from radiofrequency exposure. They are not intended to address every reported biological effect, particularly where evidence for long-term or non-thermal health effects remains disputed.

⁴⁶ Ibid

⁴⁷ PubMed search: (electromagnetic fields) OR (radiofrequency)) OR (RF-EMF)) AND (health)) OR (cancer)) OR (neurological)) OR (reproductive)) OR (oxidative stress)

⁴⁸ International Commission on Non-Ionizing Radiation Protection (ICNIRP). Guidelines for Limiting Exposure to Electromagnetic Fields (100 kHz to 300 GHz). Health Phys. 2020 May;118(5):483-524. doi: 10.1097/HP.0000000000001210.

⁴⁹ International Commission on Non-Ionizing Radiation Protection (ICNIRP). Guidelines for limiting exposure to time-varying electric and magnetic fields (1 Hz to 100 kHz). Health Phys. 2010 Dec;99(6):818-36. doi: 10.1097/HP.0b013e3181f06c86.

As with many European countries, Sweden uses the EU Council Recommendation 1999/519/EC, which is based on the ICNIRP guidelines to establish radiofrequency (RF) electromagnetic field levels.⁵⁰ However, for extremely Low Frequency (ELF) magnetic fields (power lines, electricity) Sweden does not specify a numerical safe limit.

- 2010 Guidelines: Power lines (50/60 Hz), household electricity, induction cooktops, railway systems are covered by the ICNIRP 2010 Guidelines. The limits are designed to prevent acute nerve and muscle stimulation caused by induced electric fields inside the body.⁵¹
- 2020 ICNIRP Guidelines: Radiofrequency (RF) electromagnetic fields (100 kHz–300 GHz) are generated by wireless communication technologies, including mobile phones, mobile phone base stations, Wi-Fi routers, Bluetooth devices, cordless phones, smart meters, tablets, laptops and computers when using wireless connections, wearable devices, and radio and television transmitters.⁵²

The stated purpose of these guidelines is to prevent established adverse health effects resulting primarily from excessive tissue heating (thermal effects).

Organisations such as ScanTech provide comparative guides to help people navigate exposure levels recommended by ICNIRP.⁵³

7. Conflicts of Interest and dissatisfactions / irregularities expressed

ICNIRP operates as a closed “private club.”

Its scientific commission has at most 14 members who are **self-selected** rather than openly elected. New members are invited by the existing ICNIRP leadership, not by any broad professional vote. *“ICNIRP does not have an open process for the election of new members. It is a self-perpetuating group with no dissent allowed,”* observed Louis Slesin, a veteran journalist and editor of *Microwave News*. In practice, **scientists who argue that evidence is sufficient to justify stricter safety standards have been excluded** from ICNIRP's ranks. This insular structure has led critics to question whether an organization with such out-sized policy impact should be so lacking in transparency and outside oversight. One striking finding is how **tightly networked the small circle of experts is** across multiple organizations.⁵⁴

Besides ICNIRP, there are several key bodies advising governments on electromagnetic fields (EMF) health effects – including the EU's Scientific Committee on Health, Environment and Emerging Risks (SCENIHR/SCHEER), the WHO's EMF Project group, the International Agency for Research on Cancer (IARC), and national panels like Sweden's Radiation Safety Authority Council and the UK's former Advisory Group on Non-Ionising Radiation (AGNIR) . In theory these groups could offer a wide range of scientific opinions.

⁵⁰ <https://scantech7.com/wp-content/uploads/2015/01/RF-EMF-Safety-Levels-Comparative-Guide-REV-A.pdf> pages 2&3

⁵¹ International Commission on Non-Ionizing Radiation Protection (ICNIRP). Guidelines for limiting exposure to time-varying electric and magnetic fields (1 Hz to 100 kHz). Health Phys. 2010 Dec;99(6):818-36. doi: 10.1097/HP.0b013e3181f06c86.

⁵² International Commission on Non-Ionizing Radiation Protection (ICNIRP). Guidelines for Limiting Exposure to Electromagnetic Fields (100 kHz to 300 GHz). Health Phys. 2020 May;118(5):483-524. doi: 10.1097/HP.0000000000001210.

⁵³ ScanTech 2015. <https://scantech7.com/emf-rf-magnetic-electric-field-sound-noise-radiation-safety-levels-dallas-fort-worth-houston-austin/>

⁵⁴ Investigate Europe. 2019. How much is safe? <https://www.investigate-europe.eu/en/posts/how-much-is-safe>

In reality, they are staffed by a remarkably overlapping cadre of individuals. ICNIRP had a Conflict of Interest by having 13 members involved in other influential organizations such as WHO (World Health Organization), EU SCENIHR (Scientific Committee on Emerging and Newly Identified Health Risks), and SSM (Swedish Radiation Safety Authority).^{55 56 57}

It a damning paper 'Health risks from radiofrequency radiation, including 5G, should be assessed by experts with no conflicts of interest' by Swedish researchers Lennart Hardell and Michael Carlberg stated⁵⁸:

"Funding from telecom companies is an obvious COI. Martin Rösli has been a member of the board of the telecom funded Swiss Research Foundation for Electricity and Mobile Communication (FSM) organization and he has received funding from the same organization.

It should be noted that the FSM is a foundation that serves formally as an intermediate between industry and researchers. According to their website, among the five founders of FSM who 'provided the initial capital of the Foundation', four are telecommunications companies: Swisscom, Salt, Sunrise, 3G Mobile (liquidated in 2011). The fifth founder is ETH Zurich (technology and engineering university). There are only two sponsors, Swisscom (telecommunications) and Swissgrid (energy), who

'support the FSM with annual donations that allow for both the management of the Foundation and research funding'

9 of those ICNIRP members are on the **WHO Radiation Committee**.⁵⁹

The **Ministry of Health of New Zealand** (NZ MoH) assists with funding to ICNIRP in part.⁶⁰

The financial commitment made by NZ MOH to ICNIRP determines from whom they follow advice, seemingly to the exclusion of all other independent Scientists such as approaches from Physicians and Scientists for Global Responsibility (PSGR).⁶¹ In a submission to the NZ Govt in 2025, *Proposed amendments to the: Resource Management (National Environmental Standards for Telecommunication Facilities) Regulations 2016*, the PSGR asked that regulations not be further deregulated.⁶²

MOH recommends that 1mG EMF radiation is the upper safe level as per the WHO advice. It has been observed this is not so and readings range intermittently from towers from 1mG up to 69.4 mG or more, many spiking at 12mG, 15mG & 34mG (Ref pictures taken below) it is near impossible to take a trip to town without being exposed to such high radiation levels

⁵⁵ Nyberg et al 2022. The European Union prioritises economics over health in the rollout of radiofrequency Technologies <https://doi.org/10.1515/reveh-2022-0106>

⁵⁶ Hardell et al. 2021. Aspects on the International Commission on Non-Ionizing Radiation Protection (ICNIRP) 2020 Guidelines on Radiofrequency Radiation J Cancer Sci Clin Ther 2021; 5 (2): 250-285 DOI: 10.26502/jcsct.5079117 <https://5gmoratoirepourlasuisse.ch/wp-content/uploads/2024/10/Hardell-et-al-J-Cancer-Sci-Clin-Ther-2021.pdf>

⁵⁷ <https://www.rfsafe.com/articles/cell-phone-radiation/investigating-icnirp-industry-ties-and-mobile-radiation-safety-standards.html>

⁵⁸ Hardell L, Carlberg M. Health risks from radiofrequency radiation, including 5G, should be assessed by experts with no conflicts of interest. Oncol Lett. 2020 Oct;20(4):15. doi: 10.3892/ol.2020.11876. Epub 2020 Jul 15. PMID: 32774488

⁵⁹ Hardell L, Carlberg M. Health risks from radiofrequency radiation, including 5G, should be assessed by experts with no conflicts of interest. Oncol Lett. 2020 Oct;20(4):15. doi: 10.3892/ol.2020.11876 [31-33](#)

⁶⁰ https://www.icnirp.org/cms/upload/doc/Annual_Report_2024.pdf

⁶¹ <https://www.psgr.org.nz/rf-emf?>

⁶² <https://www.psgr.org.nz/pub-res/rma/305-2025-nestf-amendment>

The NZ Government has failed to take advice from Physicians and Scientists for Global Responsibility, an independent group. Twenty-six years ago, scientist Dr Cherry was invited by the Ministry of Health/Ministry for the Environment of New Zealand to carry out a peer-review of the proposal to adopt the ICNIRP guidelines for cell sites in New Zealand, in November 1999.⁶³ Cherry's review stated:

This review shows that the assessment had ignored all published studies showing chromosome damage. It was highly selective, biased and very dismissive of the genotoxic evidence and the epidemiological evidence of cancer effects and reproductive effects. The assessment gives the strong impression of being predetermined in the belief that the only effects were from high exposures that cause electric shocks and acute exposures that cause tissue heating.

Cherry's advice was ignored.

CONNEXA states "It's important to Connexa that communities are informed about our plans. So, we send letters to residents close to mobile towers before installation or upgrades, providing details about our plans and what the finished site will look like."⁶⁴ This does not appear to be the case in reality, 5G towers are deployed without any consultation with the local community.

"Many residents in the Whakatāne neighbourhood of Awatapu were surprised last week to see a new cell tower had appeared on council reserve land, practically overnight..... The council, or whoever is supposed to approve these things, didn't let anybody know about it."⁶⁵

Over 11 pages of studies summarised dating back to 1974 indicating biological changes to the body when exposed to RF frequency. See charts attached.⁶⁶

WHO: Increasing concern that the WHO may not serve the public interest

WHO head Tedros Adhanom Ghebreyesus is under investigation following accusations of embezzling public funds when he was Ethiopia's health minister. Leaked data, which consists of around 19,000 emails, the 45-gigabyte file shows accusations of embezzlement of public funds, sexual misconduct, rigged tenders when he was Ethiopia's health minister from 2005 to 2012.⁶⁷ In 2017, [National Review](#) called for the WHO to be defunded in part over Dr. Tedros ties to the terror group.

Dr. Tedros, as he likes to be called (he has a Ph.D. in community health), is a leader of Ethiopia's brutal minority party, the Tigray People's Liberation Front, a wing of the ruling Marxist-rooted Ethiopian People's Revolutionary Democratic Front. He served the violently repressive regime as Minister of Foreign Affairs from 2012 to 2016, after a stint as health minister.⁶⁸

(After the announcement of the US HHS withdrawal from WHO, he now denies the role that WHO played in the Covid 19 pandemic stating: "While WHO recommended the use of masks, physical distancing and vaccines," Ghebreyesus' post on X said, "WHO did not recommend governments to mandate the use of masks or vaccines and never recommended lockdowns. WHO supported sovereign

⁶³ Cherry N. Jan 31, 2000). CRITICISM OF THE HEALTH ASSESSMENT IN THE ICNIRP GUIDELINES FOR RADIOFREQUENCY AND MICROWAVE RADIATION (100 kHz - 300 GHz). https://neilcherry.nz/wp-content/uploads/2021/05/90_m4_EMR_ICNIRP_critique_09-02.pdf

⁶⁴ <https://connexa.co.nz/community-1>

⁶⁵ <https://www.teaonews.co.nz/2024/12/11/cell-towers-sudden-appearance-upsets-awatapu-locals/>

⁶⁶ <https://bioinitiative.org/wp-content/uploads/pdfs/BioInitiativeReport-RF-Color-Charts.pdf>

⁶⁷ <https://www.theafricareport.com/325803/who-director-general-tedros-accused-of-embezzling-ethiopian-funds/>

⁶⁸ <https://www.theblaze.com/news/dr-tedros-has-terror-ties-in-ethiopia>

governments with technical advice and guidance that was developed on the basis of evolving evidence on COVID-19 for them to make policy decisions in the best interests of their citizens. Each government made their own decisions, based on their needs and circumstances."⁶⁹)

The WHO IARC advisory committee, as of 2019, recommends a reevaluation to determine carcinogenicity. The WHO/IARC advisory committee [released](#) a report last year recommending wireless radiation be re-evaluated by 2024 as a "high priority." IARC Director Christopher Wild advised in the IARC [press release](#) that people start taking precautions to reduce exposure to cellphone radiation, "Given the potential consequences for public health."

It is important to note that the World Health Organization International Agency for the Research on Cancer is a different entity than the World Health Organization EMF Project. The EMF Project was started with industry money and has been criticized for lack of transparency and [deep roots](#) to the industry. As an example, we are not informed as to who writes the factsheets and content, and when asked, *there is no response*. The one paid staff member on the EMF Project is an engineer who has a history of support from wireless companies.⁷⁰

8. Responsibility for Monitoring Emissions from the 5G Towers

MBIE states that the MOH and local government are responsible for Environmental Health Monitoring.⁷¹ The Whakatane District Council states: they have not undertaken any Health and Safety studies before approval of consents, they have not done any monitoring of the EMF emissions after construction, they have no limit on how many more may be deployed in the future.⁷²

They state: "All applications for resource consent for telecommunication facilities require prior certification of compliance with the NES:TF and NZS 2772.1:1999 concerning radio frequency field effects." This compliance consent is 27 years old and 5G did not exist then.⁷³

In answer to the question: "Are there any other EMF emitting devices installed within our district e.g. on top of lamp posts? In bollards etc?" The Whakatane Council responded:

"Some of our CCTV cameras run off Wi-Fi, with point to point repeaters and 4G connections. Our streetlights have Telecells installed on their tops. These Telecells send information about the streetlight (when to turn on/off, power usage, faults) to our Central Management System (CMS) via Wi-Fi."⁷⁴

When asked "What safeguards have been put in place to ensure the safety of the people and the environment within the range emitted?" The response was:

"All applications for resource consent for telecommunication facilities require prior certification of compliance with the NES:TF and NZS 2772.1:1999 concerning radiofrequency field effects."

⁶⁹ <https://www.outkick.com/analysis/who-chief-denies-lockdown-role-years-publicly-championing-strict-covid-19-mandates>

⁷⁰ <https://ehtrust.org/science/whoiarc-position-on-wireless-and-health/>

⁷¹ <https://www.mbie.govt.nz/dmsdocument/7483-5g-information-pack-pdf>

⁷² LGOIMA request https://www.whakatane.govt.nz/sites/www.whakatane.govt.nz/files/lgoima/lgoima-response-5g-towers-28-november-2025_redacted.pdf

⁷³ Ibid

⁷⁴ LGOIMA request https://www.whakatane.govt.nz/sites/www.whakatane.govt.nz/files/lgoima/lgoima-response-5g-towers-9-december-2025_redacted.pdf

Monitoring of 5G towers is contracted out to EMF services ,(owned by Martin Gledhill, who has a Conflict of Interest) by Te Whatu Ora. The noticeable points are:

1. The report assessment was from July 2023 until May 2024....25 months old,
2. The most recent report wasn't made public until Feb 2025 ... 9 months after
3. Two of four of the tables presented were "theoretical ", one table presented in percentages of allowable limits, the other is historical.
4. 54 sites were monitored, Connexa, the company who does the construction of these towers state they have deployed 2500 (a bit of time lag there from May 2024 until present).

And now the very concerning part:

5. The measurements are done in GHz not Milligauss. mG. To clarify:

GHz measures the speed of electronic devices, particularly in computing. For example, a processor running at 3 GHz can perform three billion cycles per second.

mG is commonly used in measuring electromagnetic fields, particularly in health and safety assessments.

Context: While GHz relates to frequency in computing, mG pertains to magnetic field strength, often in environmental studies or electrical engineering.

The report does not at any point refer to the mG (milliGauss), which is essential to monitor the Health and Safety for the population and environmental health. This is critical and has been obfuscated by the claim from Te Whatu Ora that the *"safe limit for non-ionising EMF, radiation, the NZS 2772.1:1999 standards are based on all possible effects non-thermal and non-ionising within 2kHz-300Ghz range."* These are two separate measures for different things.^{75 76 77}

As the above response shows, Te Whatu Ora has not supplied any reports relating to Health and Safety.

Further investigation shows that to add more concern to the safety the following screenshot indicates that by law, under the NES-TF 2016 Regulations⁷⁸:

Resource Management (National Environmental Standards for Telecommunication Facilities) Regulations 2016 sub part 7 - radio frequency fields (Summarised):

⁷⁵ <https://www.healthnz.govt.nz/health-topics/keeping-healthy/healthy-homes-environments/non-ionising-fields/independent-cellsite-monitoring#summary-reports-18754>

⁷⁶ <https://static.info.content.health.nz/docs/publications/Spark-cellsite-compliance-monitoring-annual-summary-2023-24.pdf>

⁷⁷ LGOIMA request https://www.whakatane.govt.nz/sites/www.whakatane.govt.nz/files/lgoima/lgoima-response-5g-towers-9-december-2025_redacted.pdf

⁷⁸ https://www.legislation.govt.nz/regulation/public/2016/0281/latest/DLM6986006.html?search=qs_act%40bill%40regulation%40deemedreg_National+Environmental+Standards+for+Telecommunication+Facilities+_resel_25_h&p=1

- (a) the facility is installed and operated in accordance with NZS 2772.1; and
- (b) before the facility becomes operational, the facility operator gives the local authority
 - (ii) a pre-commencement report that complies with subclause (3); and
- (c) either—

(i) the facility operator gives the local authority a post-commencement report that complies with subclause (4) within 3 months after the facility becomes operational; or

(ii) under subclause (5), the facility operator is not required to give a post-commencement report.

(5) The facility operator **is not required** to give a post-commencement report if the prediction referred to in subclause (3)(c) was that the radio-frequency field levels will not reach 25% of the maximum level authorized by NZS 2772.1 for exposure of the general public.

https://www.legislation.govt.nz/regulation/public/2016/0281/latest/DLM6985640.html?search=qs_act%40bill%40regulation%40deemedreg_National+Environmental+Standards+for+Telecommunication+Facilities+_resel_25_h&p=1

Subpart 7—Radiofrequency fields

55 Radiofrequency fields

- (1) This regulation applies to an RFG facility.
- (2) This regulation is complied with if—
 - (a) the facility is installed and operated in accordance with NZS 2772.1; and
 - (b) before the facility becomes operational, the facility operator gives the local authority—
 - (i) written or electronic notice of the facility's location; and
 - (ii) a pre-commencement report that complies with subclause (3); and
 - (c) either—
 - (i) the facility operator gives the local authority a post-commencement report that complies with subclause (4) within 3 months after the facility becomes operational; or
 - (ii) under subclause (5), the facility operator is not required to give a post-commencement report.
- (3) A pre-commencement report must—
 - (a) be prepared in accordance with AS/NZS 2772.2; and
 - (b) take into account exposures arising from other telecommunication facilities in the vicinity of the facility; and
 - (c) predict whether the radiofrequency field levels at places in the vicinity of the facility that are reasonably accessible to the general public will comply with NZS 2772.1.
- (4) A post-commencement report must—
 - (a) be prepared in accordance with AS/NZS 2772.2; and
 - (b) provide evidence that the actual radiofrequency field levels at places in the vicinity of the facility that are reasonably accessible to the general public comply with NZS 2772.1.
- (5) The facility operator is not required to give a post-commencement report if the prediction referred to in subclause (3)(c) was that the radiofrequency field levels will not reach 25% of the maximum level authorised by NZS 2772.1 for exposure of the general public.
- (6) In this regulation,—

AS/NZS 2772.2 means AS/NZS 2772.2:2016 Radiofrequency fields – Part 2: Principles and methods of measurement and computation – 3 kHz to 300 GHz

NZS 2772.1 means NZS 2772.1:1999 Radiofrequency fields – Maximum exposure levels – 3 kHz to 300 GHz.

The Ministry for the Environment has a leaflet that claims⁷⁹:

“The telecommunication activities allowed under the NES are considered low impact; therefore, consultation is not required. For those activities that do require a resource consent, sometimes the written approval from neighbouring property owners may be required or consultation may be required with affected parties (in the resource consent process, it’s described as ‘notification’

and

“To comply with the New Zealand standard all sources of radio-frequency fields in an area – not just the fields generated from a new antenna need to be assessed. This ensures that the cumulative effect of all antennas is considered. The Ministry of Health has measured exposure levels around several hundred cell sites across New Zealand. The maximum exposures in public areas were found to be typically less than one-hundredth (1 per cent) of the limit allowed in the New Zealand standard. Measurements continue to be carried out on approximately 10 cell sites per year.”

Minister of Health charged to remedy glaring Conflict of Interest June 17, 2023.

Release 2023⁸⁰: A coalition of Health and Safety watchdog groups has called on the Minister of Health to remedy a serious conflict of interest in one of its most important advisory committees. Spokespersons for SaferTechNZ, SafeICTnz, Waiheke Action for Ethical Technology, and the NZ Wireless Authority for Radiation Protection have alerted the Minister to a serious conflict of interest concerning a leading figure on the Interagency Committee on the Health Effects of Non-Ionising Fields.

This committee advises the Ministry of Health on the levels of radiation to which the New Zealand public can be safely exposed. This requires regular and comprehensive review due to the increasing numbers of cell phone towers and wireless devices in use.

Martin Gledhill, a long-time member of the committee, plays a key role in selecting the research reviews to be considered by the committee at its twice-yearly meetings. He also writes the minutes of those meetings.

The clear conflict of interest arises from the fact that Mr Gledhill also owns a business, EMF Services, which has commercial contracts with the major New Zealand telecommunications companies, and is also contracted by Health New Zealand to monitor the towers.

Dr Andrew Old, speaking on behalf of Health Minister Dr Ayesha Verrall, says “the Ministry of Health is aware of the potential conflict of interest.” At the same time, he dismisses this conflict as “natural and unavoidable in a small country like New Zealand.”

A SaferTechNZ spokesperson argues: “When are conflicts of interest, especially in the field of public health and safety, ‘natural and unavoidable’? Is New Zealand too small to be ethical?”⁸¹

This same Martin Gledhill of EMF Services states on his website “At many frequencies, the Standard allows exposures to be averaged over 6 minutes and also averaged over a small area”. This flawed

⁷⁹ <https://environment.govt.nz/assets/Publications/Files/telecommunication-facilities-standards-leaflet.pdf>

⁸⁰ <https://saferemrtechnology.org.nz/2023/06/17/minister-of-health-charged-to-remedy-glaring-conflict-of-interest/>

⁸¹ <https://saferemrtechnology.org.nz/2023/06/17/minister-of-health-charged-to-remedy-glaring-conflict-of-interest/>

measuring could be compared to telling the people of the East Coast “that although you got 300 mls rain in 24 hours, you only got 30 mls average monthly for the rest of year....so don’t worry, no damage is done” or “the sun is burning hot today, but for the last month it’s been cloudy, don’t worry, you won’t get sunburnt”.⁸²

Additionally, it has frequently been found that the radiation given off may be minimal for 15- 20 mins but is followed by high recorded EMF radiation....at what point in time does the individual checking records monitor the towers 24/7 to ensure that the records he takes are consistent. How often are the towers monitored? According to the Whakatane District Council, they do not monitor them, and Physicians and Scientists for Global Responsibility have stated that neither has the Ministry of Health, MBIE, or the MftE provided data.

At present the Whakatane District Council has stated that they do not monitor radiation levels. Recordings taken locally indicate the levels are excessively higher.

Safety levels of Non-Thermal EMF radiation do not appear to have been established worldwide

Official assurances of safety rest on outdated assumptions that only tissue heating (thermal effects) matter. Yet for decades, scientists have reported *non-thermal* biological impacts of low-level EMFs on cells, animals, and humans. Thousands of independent studies (compiled in reports like the BioInitiative) document how chronic exposure to wireless radiation can lead to neurological, reproductive, developmental, and carcinogenic effects.⁸³

Almost all wireless companies from Verizon, T Mobile to Vodafone warn their shareholders of risk from lawsuits related to the RF radiation but they do not warn the people who live next to their RF emitting equipment.⁸⁴

5G and Cell Towers Are an Uninsurable Risk ... Insurance Authorities Rate 5G as "High Risk."

5G mobile networks are classified as a “high,” “off-the-leash” risk. “Existing concerns regarding potential negative health effects from electromagnetic fields (EMF) are only likely to increase. An uptick in liability claims could be a potential long-term consequence” and “as the biological effects of EMF in general and 5G in particular are still being debated, potential claims for health impairments may come with a long latency.”⁸⁵

RFK Jr.’s Epic Court Win: A Game-Changer for Public Health

In a **landmark 2021 decision**, **Robert F. Kennedy Jr.** and his team achieved a major victory against the FCC. The U.S. Court of Appeals for the District of Columbia Circuit ruled that the FCC had **neglected decades of scientific evidence** showing the harmful effects of radiofrequency radiation (RFR). This ruling

⁸² <https://www.emfservices.co.nz/resources/the-nz-exposure-standard>

⁸³ <https://www.rfsafe.com/invisible-dangers-evidence-for-non-thermal-emf-effects-and-a-call-for-regulatory-reform/>

⁸⁴ <https://ehtrust.org/cell-tower-companies-warn-their-shareholders-of-the-risk-related-to-damages-from-radiation-health-effects/>

⁸⁵ Swiss Re Institute (201) <https://ehtrust.org/wp-content/uploads/Legal-Liability-Issues-of-Cell-Towers-and-5G-Health-Damages.pdf>

compelled the FCC to revisit its **outdated 1996 guidelines**, which fail to address non-thermal effects such as cancer and neurological disorders.^{86 87}

Investments and revenue earned, No safety concerns mentioned

New Zealand is expected to achieve nearly 95% 5G penetration by 2030

New Zealand’s telecom market is dominated by Spark New Zealand, One NZ, and 2degrees, collectively controlling more than 97 percent of mobile subscriptions.⁸⁸

The following list shows the investments made, although not complete.

9. Investment in 5G Networks in New Zealand in 2025

Total Investment Overview

Operator	Investment Amount (NZD)	Revenue earned	Focus Areas
One New Zealand	100 million		Mobile network upgrades, 5G coverage
Spark New Zealand	800 million	NZ\$3.7 billion	Network and digital infrastructure
2 Degrees		NZ\$1.385 billion	

10. Uses of 5G towers undisclosed to the public

Increasing measures that involve surveillance are resulting in decreasing levels of public trust, and the extreme lockdown measures during the Covid-19 have since been found to be excessive and not reflected the real morbidity and mortality risk of the Covid event.

There’s increasing evidence that the technology that is enabled through 5G and 6G, may be used for authoritarian-style measures that undermine citizen independence and safety. Many research projects and patent designs suggest nefarious intentions that have potential to undermine citizen sovereignty.

5G tower infrastructure establishment commenced during the Covid lockdowns of 2020 when many businesses were not allowed to open or were severely restricted by Government orders under the guise of ‘stopping the spread’ or ‘keeping Grandma safe’. However, it is apparent that establishing 5G towers considered an “essential activity” by the Government, even though required connectivity demand was reduced due to large numbers of the population having been restricted to staying at home and not requiring it for work related purposes, and current services/ connectivity were adequate for purpose.

⁸⁶ <https://www.rfsafe.com/articles/cell-phone-radiation/rfk-jr-and-brendan-carr-two-divergent-paths-on-rf-radiation-safety.html>
⁸⁷ Scarato T (2025) U.S. policy on wireless technologies and public health protection: regulatory gaps and proposed reforms. Front. Public Health 13:1677583. doi: 10.3389/fpubh.2025.1677583
⁸⁸ <https://telecomlead.com/5g/new-zealand-5g-and-broadband-investments-to-drive-telecom-and-pay%E2%80%91tv-services-revenue-123940>

Generally increased surveillance comes under the guise of 'keeping us safe from disease' or 'stopping crime', but the following indicates there are other reasons for the supposed 'need' of 5G towers which had not been disclosed to the unsuspecting public.

1. Electronic surveillance has potential to perform a similar function to undercover operations but allows for the collection of a broader range of evidence.⁸⁹

2. US Patent WO 2020 060606 indicates that the "device" in use is in fact the human body to which a task has been provided by a Server (via 5G).⁹⁰ Human body activity data is then communicated back to the server via the 5G network.⁹¹

3. CDC helps build robust surveillance systems collaborating to strengthen Surveillance Systems Worldwide.⁹² During the COVID-19 pandemic continuing collaboration with CDC and Colombia's National Public Health Institute, Instituto Nacional de Salud (INS), SIVIGILA, Colombia's public health surveillance system, was developed 15 years ago. SIVIGILA expanded the reporting network to include municipal, departmental, and district level units and scaled-up the number of records captured from an estimated 1.5 million records collected in 2019 to an estimated 36 million in 2021.

4. 5G Technology is Transforming Surveillance Capabilities. This includes expansion of IoT surveillance devices; systems can monitor and analyze crowds; 5G is "essential for autonomous surveillance systems such as drones and robotic security guards."; Supporting Smart City Initiatives: SMART being an acronym for "Self-Monitoring, Analysis, and Reporting Technology."

5. 5G, 6G, and beyond, the Internet of Things (IoT), and robotics, AI is being rolled out with little to no democratic participation or consent. The applications that have been rolled out so far have been both alarming and troubling as AI is being used as an accelerant for corporate and military-driven unsafe and extractive technologies that focus power-over, citizen surveillance, population control, and war. Two alarming trends, transhumanism and technocratic governance, are being rapidly advanced by AI. Transhumanism includes genetic engineering, cryonics, nanotechnology, and biotechnology. It also encompasses technologies to "enhance" cognitive abilities such as brain implants that connect humans to computers in the hope of creating "super humans."⁹³

6. The Hidden Military use of 5G network Military experts foresee that the 5G system will play an essential role for the use of hypersonic weapons – missiles, including those bearing nuclear warheads, which travel at a speed superior to Mach 5 (five times the speed of sound).⁹⁴

7. A video [recommended by](#) Kash Patel. More than 300,000 Targeted Individuals within the US alone are being tracked and attacked with High Powered Microwave (HPM) weapons from satellites and cell towers.⁹⁵

⁸⁹ <https://www.unodc.org/e4j/en/organized-crime/module-8/key-issues/special-investigative-techniques/intro.html>

⁹⁰ <https://patentimages.storage.googleapis.com/11/a4/fe/095b0d0459d9c4/WO2020060606A1.pdf>

⁹¹ <https://patentimages.storage.googleapis.com/11/a4/fe/095b0d0459d9c4/WO2020060606A1.pdf>

⁹² <https://www.cdc.gov/global-health-protection/php/stories-from-the-field/collaborating-to-strengthen-surveillance-systems-worldwide.html>

⁹³ <https://securityforcenow.com/how-5g-technology-is-transforming-surveillance-capabilities/>

⁹⁴ <https://just-international.org/articles/the-hidden-military-use-of-5g-technology/>

⁹⁵ <https://targetedjustice.com/> <https://www.facebook.com/share/r/1DpjWNaYSc/>

8. Nervous system manipulation by electromagnetic fields from monitors. A method for manipulating the nervous system of a subject located near a monitor, the monitor emitting an electromagnetic field when displaying an image by virtue of the physical display process.⁹⁶
9. An Intelligent Clustering-Based Routing Protocol (CRP-GR) for 5G-Based Smart Healthcare Using Game Theory and Reinforcement Learning.^{97 98}
10. Communication system and method including brain wave analysis and/or use of brain activity.⁹⁹
11. A method for covertly creating adverse health effects in a human subject includes generating at least one electromagnetic wave at a frequency within the range of about 300 MHz (megahertz) and about 300 GHz (gigahertz).¹⁰⁰
12. The RF hearing effect, also known as the microwave auditory effect or Frey effect, is the phenomenon where individuals perceive sounds generated directly in their heads when exposed to pulsed or modulated radio frequencies. This effect occurs without any external sound source. The effect has been observed with frequencies ranging from approximately 200 MHz to 3 GHz.¹⁰¹
13. Sound is induced in the head of a person by radiating the head with microwaves in the range of 100 megahertz to 10,000 megahertz that are modulated with a particular waveform. The patent outlines a system in which high-frequency microwaves are directed at a person's head. When properly modulated, the person perceives sound directly inside their skull—without using their ears, eardrums, or even bone conduction.¹⁰²
14. A patent for an apparatus that uses the radio frequency hearing effect to audibly communicate speech.¹⁰³
15. The United States' Discombobulator weapon, a term used by U.S. President **Donald Trump** in public statements in January 2026 to describe a weapon or capability allegedly used during a military operation in Venezuela to disable defense systems.¹⁰⁴

11. Legal rulings made on 5G towers around the Globe.

1. A potential risk for property owners

A German court ruling of July 2020 may portend future litigation risks for property owners and local governments who allow 5G millimeter wave antennas to be erected on their property, potentially setting a precedent for other nations as well.

The court determined in a lawsuit that property owners who rent space for base station antennas assume responsibility for possible health consequences of the activity. The court ruled in part:

⁹⁶ <https://patents.google.com/patent/US6506148B2/en>

⁹⁷ <https://www.mdpi.com/2076-3417/11/21/9993>

⁹⁸ Explained by Sabrina Wallace <https://www.facebook.com/reel/767235409778911>

⁹⁹ <https://patents.google.com/patent/US6011991A/en>

¹⁰⁰ <https://patents.google.com/patent/US11801394B1/en>

¹⁰¹ <https://patents.google.com/patent/US6470214/en>

¹⁰² <https://patents.google.com/patent/US4877027/en>

¹⁰³ <https://patents.google.com/patent/US6587729/en>

¹⁰⁴ <https://www.linkedin.com/pulse/telco-ai-discombobulator-kaneshwaran-govindasamy-hcf4c>

“As even official bodies such as the European Parliament’s Research Service (STOA) point out that the electromagnetic radiation limit values are too high by at least a factor of 10, the owner takes a liability when entering into an agreement with a mobile phone system operator in this regard.”

As far as this liability extends, the court also stated that property owners must be responsible for all new dangers and risks, which can be further strengthened through future upgrades and new mobile phone technology. In the Australian and New Zealand context, even though the telecommunications carriers are themselves indemnified against the risk of possible harm that their facilities may cause, this apparently does not carry over to the owner of the property on which the facility is located.¹⁰⁵

2. Environmental Health Trust et al. v the Federal Communications Commission (FCC).

On August 13, 2021, the U.S. Court of Appeals for the D.C. Circuit [found](#) that the FCC had ignored scientific evidence and failed to provide a reasoned explanation for its decision that its wireless radiation exposure guidelines adequately protect the public against all the harmful effects of wireless radiation. The Court found the FCC had ignored to address evidence submitted to the FCC indicating “non-cancer” effects, children’s vulnerability, environmental impacts, and impacts from long-term exposure. The Court ordered the FCC to provide a reasoned determination as to whether the evidence sent to the agency (consisting of over 1000 comments which included reference to hundreds of scientific research papers reporting harmful effects) justifies maintaining the 1996 wireless radiation limits. The FCC offered no explanation for why the evidence on non-cancer outcomes – such as impacts to children, reproduction, neurological effects, environmental impacts, and the effects of long-term exposure – did not warrant further review or updated limits. Because of this, the Court ruled that the FCC’s decision to keep its 1996 exposure limits was “arbitrary and capricious,” and that the FCC broke administrative law by failing to address all of the evidence it was required to consider.

2013-2019: [FCC opens a public inquiry](#) asking if wireless radiation regulations should be updated and receives over 1000 submissions of scientific research reporting cancer, impacts to brain development, memory, reproduction, and the immune system, adverse biochemical changes, and other biological impacts indicating the FCC limits are inadequate to protect public health.^{106 107}

No Action or Compliance on Lawsuit – EH Trust Petition Filed Aug 2025

Since the 2018 lawsuit EHTrust vs FCC was won by EHTrust, there has been no action to re-evaluate the safety standards. EHTrust filed a petition to the FCC Aug 19, 2025 to call for action.¹⁰⁸

3. UKB wins critical case against FCC, 5G deployment.

In a win for the United Keetoowah Band of Cherokee Indians, the U.S. Court of Appeals for the District of Columbia ruled August 9, 2019, that the Federal Communications Commission must uphold tribal consultation requirements for small 5G cell tower deployments. The case specifically asked the courts to

¹⁰⁵ <https://betweenrockandhardplace.wordpress.com/wp-content/uploads/2022/08/don-maisch-brillouin-precursors-july-8-2022.pdf>

¹⁰⁶ <https://ehsciences.org/lawsuit-wireless-radiation-safety/#LFCD-Court-Ruling>

¹⁰⁷ https://childrenshealthdefense.org/legal_justice/chd-v-fcc-5g-wireless-radiation-guidelines-lawsuit/?lang=es#summary

¹⁰⁸ <https://mdsafetech.org/legal-issues-and-cell-towers/>

halt the FCC's Wireless Infrastructure Streamlining Order, which was passed with a 3-2 FCC vote in September 2018.¹⁰⁹

4. Brown v. LAUSD

JML Law Wins Appeal in 'Unprecedented' Disability Case Against LAUSD For Failure to Accommodate Teacher With Electromagnetic Hypersensitivity, Friday, 26 March 2021

Brown v. LAUSD establishes that symptoms of 'electromagnetic hypersensitivity' a.k.a. 'Microwave Sickness' could be deemed a 'physical disability' under the FEHA.

LOS ANGELES, CA / ACCESSWIRE / March 26, 2021 / Today, [JML Law](#) announced it has won a major appeal in the California Court of Appeal that establishes that a plaintiff who pleads symptoms and physical manifestations of "electromagnetic hypersensitivity" has adequately alleged that they suffer from a "physical disability" under the California Fair Employment and Housing Act ("FEHA").¹¹⁰

5. Long Beach, California, 2023.

How one California couple beat the future at their doorstep: a 5G cell site. A sudden shift of momentum in a long conflict between industry and activists. March 31, 2023. WHY?¹¹¹

6. Pittsfield, Massachusetts. 2022

Board of health Orders [Cease and Desist Order](#).¹¹²

7. Lake Tahoe, California, 2021

Federal lawsuit challenges new cell tower, 5G antennas in Lake Tahoe. Feb 11, 2021.¹¹³

28 Scientific studies link cell towers to health harm.

A [review](#) by Balmori 2022 examined existing research on people living near cell towers (known as mobile phone base stations internationally) and **found the majority of studies reported impacts, primarily radiofrequency sickness, cancer, and altered biochemical markers.**¹¹⁴

12. Applicable crimes and legislation (New Zealand)

These are the considerations of the author:

[Resource Management \(National Environmental Standards for Telecommunication Facilities\) Regulations 2016](#), 55 Radiofrequency fields.¹¹⁵

¹⁰⁹ <https://www.ukb-nsn.gov/post/ukb-wins-critical-case-against-fcc-5g-deployment>

¹¹⁰ <https://www.accessnewswire.com/newsroom/en/business-and-professional-services/jml-law-wins-appeal-in-unprecedented-disability-case-against-la-637661>

¹¹¹ <https://why.org/segments/california-couple-beat-future-at-their-doorstep-5g-cell-tower/>

¹¹² <https://mdsafetech.org/2022/02/09/board-of-health-orders-verizon-to-cease-and-desist-in-pittsfield-massachusetts-cell-tower-battle/>

¹¹³ <https://www.bizjournals.com/sacramento/news/2021/02/11/cell-towers-lake-tahoe-lawsuit.html>

¹¹⁴ Balmori A. Evidence for a health risk by RF on humans living around mobile phone base stations: From radiofrequency sickness to cancer. Environmental Research, <https://doi.org/10.1016/j.envres.2022.113851>

- Breached, observed EMF levels have been excessively above the recognized safe levels.

[Resource Management Act 43a](#)¹¹⁶

[Radiation Safety Act 2016](#), Section 9¹¹⁷

[Health and Safety at Work Act 2015](#), Sections: 24,25,36, 37,43,44¹¹⁸

- Subpart 4 - Offences relating to Duties: 47, 48, 49,50, 52, 54, 56, 57.

[Crimes Act 1961](#), Sections: 25,73,145, 188,189, 191,200, 216B, 298A, 307A

- Relates to harm caused to people by having excessive exposure to Radiation.

6 SECTION 48 of the [Crimes Act 1961](#) provides:

Everyone is justified in using, in the defence of himself or another, such force as, in the circumstances as he believes them to be, it is reasonable to use.

This defence recognizes that people have a right to defend themselves against violence or threats of violence, so long as the force used is no more than is reasonable for that purpose. The law does not require people to wait until they have been attacked before taking action to protect themselves.¹¹⁹

WorldWide Laws¹²⁰



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https://www.legislation.govt.nz/regulation/public/2016/0281/latest/DLM6986006.html?search=qs_act%40bill%40deemedreg_National+Environmental+Standards+for+Telecommunication+Facilities+_resel_25_h&p=1

¹¹⁶ <https://www.legislation.govt.nz/act/public/1991/0069/latest/DLM233307.html>

¹¹⁷ <https://www.legislation.govt.nz/act/public/2016/0006/latest/DLM6339622.html>

¹¹⁸ <https://www.legislation.govt.nz/act/public/2015/70/en/latest/#DLM5976660>

¹¹⁹ https://www.austlii.edu.au/nz/other/nzlc/pp/PP41/PP41-3_.html

¹²⁰ Environmental Health Trust. <https://ehtrust.org/policy/international-policy-actions-on-wireless/>

Summary – Public Concerns Set Aside

The rollout of 5G without adequate studies done, has been described as irresponsible, ignoring the advice from independent scientists worldwide who have been “screaming from the tree tops” With much evidence of Conflicts of interest there has been no attempt to decommission or put “on hold” the deployment of the towers until a thorough Health and Safety study has been completed. The New Zealand Government initiated the Ultra-Fast Broadband (UFB) initiative in 2009 with the rollout commencing in 2010.

As I have discussed above the Interagency Committee is ‘ground zero’ for claiming that New Zealand regulations and standards are safe. This claim is used by other ministries to set aside public concerns. Yet the Interagency Committee does not follow a trustworthy process in analysing any risks or hazards from radiofrequency electromagnetic radiation, either through monitoring or scientific analysis.

The following text is extracted from a 2025 submission by PSGR to the Proposed amendments to the: Resource Management (National Environmental Standards for Telecommunication Facilities) Regulations 2016. PSGR highlight the many problems with ministerial approaches:

Fibre networks are safer than telecommunications facilities (including towers, antennae and small cells on power poles) and politically uncontroversial. Currently 87% of New Zealanders have remarkable access to fibre broadband and New Zealand ranks 9th in terms of fixed broadband connectivity. (Legislation for Resource management (NES-TF) were passed in 2016.)

The Ministry officials’ argument for deregulation focused exclusively on reduced regulatory costs for the telecommunications industry and did not consider safety. Remote and rural businesses and residences are extensively served by satellite-enabled telecommunications. Starlink supplies broadband to New Zealanders. Starlink is the largest constellation supplying satellite data to New Zealand and, of the 38 systems that will provide data in the future, it is expected to remain so. The Regulatory Impact Statement (RIS) demonstrates that any consideration of the health and safety of New Zealanders has been deliberately excluded from the current policy initiative. Health relating to exposures is explicitly drafted out of scope.¹²¹

There is no evidence for benefits and well-being from this policy proposal. Changes to radio frequency exposure standards are out of scope. Under NES-TF, telecommunications providers need to comply with the New Zealand radio frequency exposure standard NZS 2772.1:1999 by reference, which is administered and reviewed by the Ministry of Health and Health New Zealand (Te Whatu Ora). The protections for radio frequency exposures will be maintained with no changes. The Ministry of Health and Health New Zealand advised that the references to NZS 2772.1:1999 align with international best practice and remain fit for purpose.

The policy problem and objective has excluded any obligation to ensure the health and safety and hence protection of local communities. This has been enabled through fragmented and outdated policy and legislation which enables the Ministers for the Environment and for Media and Communication to prima facie absolve themselves from any risks that arise as a consequence of such a policy change.

The MfE and MBIE have not made a genuine effort to identify, understand, and estimate the various categories of cost and benefit associated with the options for change.

¹²¹ <https://www.psgr.org.nz/pub-res/rma/305-2025-nestf-amendment>

Reports and data are not held by the Ministry of Health, MBIE, or the MfE that publicly demonstrate that ongoing monitoring, evaluation and reporting is frequently undertaken, to signal that the agencies have the health of New Zealanders front and centre of this proposal

There has been no systematic impact and risk analysis. No review of best-practice and the actions of countries that have more tightly regulated equipment, with awareness that the advancing science continues to fail to demonstrate absence of risk and increase knowledge of vulnerability, particularly in key developmental periods. The policy and subsequent proposals do not conform to any standard of safety and risk and are not evidence informed. Neither the RIS nor the Package 1, Part 2.5 NES-TF proposal does not conform to good regulatory practice, which is required by The Treasury.

Public trust cannot be expected to be sustained when the government

- Explicitly excludes discussion of major concerns about health risk.*
- Does not transparently publish and update monitoring data.*
- Does not evaluate such data against published data on risk (including in vitro, case control and cohort studies).*
- Does not compare NZS 2772.1 with maximum-allowable standards elsewhere, particularly in Russia and Europe.*

In short, NZS 2772.1:1999 is now 27 years out of date.¹²²

Following that 2025 consultation, in May 2026 the Report on Recommendations and Decisions (ME 1970) was published.¹²³ The report is an example of how safety issues are downplayed and excluded by officials from telecommunications regulations amendments.

PSGR's and other groups that had expressed concern about the safety of current regulations was not addressed by the document:

Four submissions from non-governmental organisations were strongly opposed to the NES-TF proposal due to perceived concerns that the existing New Zealand Standard on Radiofrequency Fields (NZS 2772.1:1999) incorporated by reference into regulation 55 of the NES-TF do not adequately protect public health.²⁶ The remaining four submitters provided limited comments that were focused on specific aspects of the proposal.

3.2.1.5 Individuals

Most of the 95 submissions from individuals opposed the NES-TF proposal, with over two thirds outlining their concerns in relation to radiofrequency field exposure limits and 5G mobile technology. Many individuals were also concerned about the visual effects from telecommunication facilities and their impact on property values (particularly in residential areas), the negative environmental and cultural or perceptual impacts, and the loss of localism and community voice.

Some individual submitters supported certain aspects of the proposal. Some welcomed the new proposed activity standards for customer connection lines to heritage buildings, renewable electricity generation, and temporary facilities. Others endorsed aspects of the proposal that promote rural

¹²² <https://www.psgr.org.nz/pub-res/rma/305-2025-nestf-amendment>

¹²³ Ministry for the Environment. 2026. National Environmental Standards for Electricity Transmission Activities and National Environmental Standards for Telecommunication Facilities: Report on Recommendations and Decisions. (ME 1970) Wellington: Ministry for the Environment.

connectivity enhancements and co-location of facility operators to reduce the number of telecommunication poles needed.

Page eighty nine explains in the footnote:

Health New Zealand and the Interagency Committee on the Health Effects of Non-Ionising Fields advise that NZS 2772.1:1999 aligns with international best practice and remains fit for purpose. The NES-TF proposal does not include any amendments to regulation 55 on radiofrequency fields and so this matter is considered out of scope.

This Report consequently resulted in an [updating](#) of national standards regulations – because the safety of any shifts in tower sizes or location was presumed to be safe and 'best practice'. This is how exposure limits are altered – but the increasing evidence that current exposures are not safe, are set aside.

It's noteworthy that insurance companies exclude health issues caused by EMF radiation, leaving the public exposed without any assistance or way of restoring their health.

A reader unfamiliar with the information entered above may be left thinking that someone has conspired to have the reader believe that a select few, those in positions of influence throughout the world, have recklessly abandoned all safety concerns and thrown caution to the wind. Laws have been implemented quietly to enable the roll-out without checks and balances. Officials can throw their hands up to say "Not me, I just followed the law"

A German court in 2020, set a precedent by determining in a lawsuit that property owners who rent space for base station antennas assume responsibility for possible health consequences of the activity. This would relate to ownership of all properties and those in charge of the final approval.

The legal definition of assault is very wide – it covers any situation where you intentionally apply force against another person's body without their consent. It also includes when it is done indirectly. Residents living and working near these towers are experiencing symptoms matching those of EMF radiation

"Equity will not suffer a wrong to be without a remedy," This maxim emphasizes that if a legal wrong occurs, equity courts will provide a remedy, even if common law does not. It highlights the importance of justice over strict adherence to potentially harmful laws. When laws allow harm to be done against the people, that is Crimes against Humanity, or worse Genocide.

The facts are all there, read the references, sadly this is no theory.

The Government , having been advised of the harm being caused by the EMF radiation 5G roll-out , by way of multiple studies having been presented to them and their failure to conduct independent studies, evidence that a significant hazard exists in the Community, failure to ensure monitoring of EMF output is regularly undertaken ,the failure to decommission, revoke consents ,remove or neutralize the offending structures indicates gross negligence, or that they have intent to harm, have committed a criminal offense. It is time for transparency. It is a fraud to conceal a fraud.

APPENDIX

Exhibit (a)

Members of the WHO core group and additional experts of the Environmental Health Criteria Document 2014 (54), EU SCENIHR 2015 (52), the SSM 2015–2020 (93) and ICNIRP commission or the Scientific Expert Group 1992–2020 (94).

Members	WHO, 2014	SCENIHR, 2015	SSM, 2015–2020	ICNIRP, 1992–2020
Emilie van Deventer	X		X	X ^a
Simon Mann	X			X
Maria Feychting	X		(X) ^b	X
Gunnhild Oftedal	X			X
Eric van Rongen	X		X	X
Maria Rosaria Scarfi	X	X	X	X
Jukka Juutilainen	X			X
Denis Zmirou	X			
Theodoros Samaras		X		
Norbert Leitgeb		X		
Anssi Auvinen		X		X
Heidi Danker Hopfe		X	X	
Kjell Hansson Mild		X		
Mats Olof Mattsson		X		X
Hannu Norppa		X		
James Rubin	X	X		
Joachim Schüz		X		
Zenon Sienkiewicz	X	X		X
Olga Zeni	X	X		
Anke Huss			X	X ^c
Clemens Dasenbrock			X	X
Lars Klæboe			X	
Martin Rösli	X		X	X
Aslak Harbo Poulsen			X	

[Open in a new tab](#)

^aWHO Observer in the main commission (95)

^b2002–2011

^c2020–2024. The table is based on members of WHO, SCENIHR and SSM during the defined time period(s). No other individuals among those within WHO or SCENIHR were found in the list of SSM participants. A total of 15 additional experts in WHO were not members of SCENIHR, SSM or ICNIRP. SCENIHR, Scientific Committee on Emerging and Newly Identified Health Risks; SSM, Swedish Radiation Safety Authority; WHO, World Health Organization; EU, European Union; ICNIRP, International Commission on Non-Ionizing Radiation Protection.

COIs with links to industry are of great importance; these links may be direct or indirect funding for research, payment of travel expenses, participation in conferences and meetings, presentation of research, etc. Such circumstances are not always declared as exemplified above. A detailed description was recently presented for ICNIRP members (22).

From: Hardell L, Carlberg M. Health risks from radiofrequency radiation, including 5G, should be assessed by experts with no conflicts of interest. *Oncol Lett.* 2020 Oct;20(4):15. doi: 10.3892/ol.2020.11876

Exhibit (b)



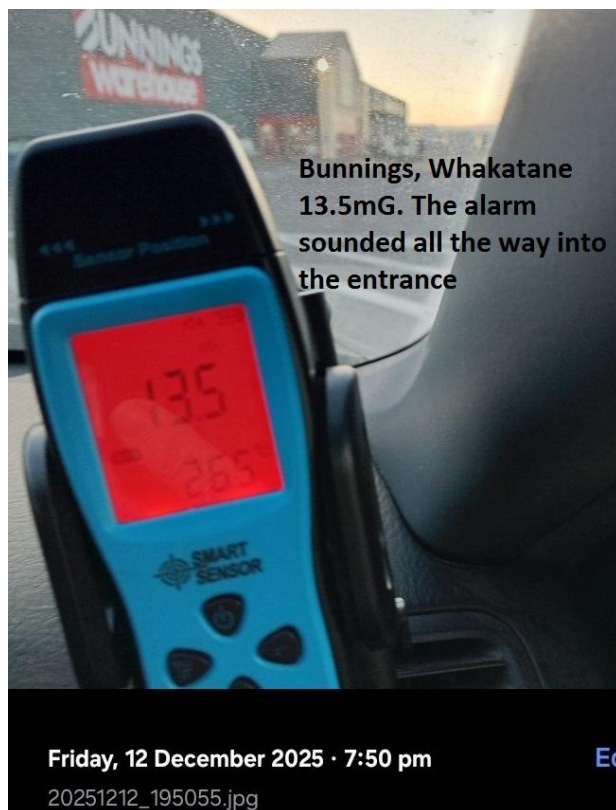


Exhibit (c) attached: Bio Initiative report

What Matters to Us?- Lament of an Ailing citizen Dedicated to those affected.

What matters to us? Is it the people? is it the sea we are close to?

The fresh air and the chance to live a good life , hunting & fishing to go to?

Perhaps just relaxation in the sun and a chance to enjoy

A coffee with friends ..Oh Boy!

Thats such bliss

And is something you would likely miss.

If you didn't have the basics ; we can't forget good health

And a business or job to create the wealth

To give us the freedom to enjoy such a simple pleasure

So Wealth, Wisdom , & Health is what we measure?

Is it in that order? Perhaps for some it is

Securing a job these days gets one into a "tizz"

Running a business gets harder by the day

So many orders and regulations in play

And of course we must learn the "ropes"

To be able to achieve and so fulfill our hopes.

Those are the orders of the day

By which we prioritize our play.

The rest we take for granted

For the sun rises and sets without question

And the moon stealthy crosses the sky without a mention

We breathe in the air

And drink the water without too much of a care.

Is that all we need to care about?

That's all that we can see

That's all good for you and me

BUT WAIT....we have not given a thought
To that which we cannot see but unknowingly have bought.
We demand to be able to connect with our friends
It justifies the cost and inconvenience.
The frequencies are stronger by the year
We use it without too much of a care
For that is how the “world goes around”.
The questions of value by which we are not bound
Because, you see, you cannot feel it
You cannot understand the effect when it hits.
It does not burn , or give you direct pain
So you don’t think it even exists.
There in plain sight for all to see,
A blot on the landscape ..but oh yes
it’s important for us to have this mess....
Insidious waves invading our space.
Their existence lining the pockets of those who don’t live in this place
What are they really for?
So lets go back and forth
We have our income , our individual thoughts...
Life’s great with our energy and wealth
Until one day our system doesn’t work as it should.
Something has affected our health.
Our values we can’t enjoy any more
Perhaps Health Wisdom and Wealth should be the order
For this is happening much earlier than we wished
The lovely beach side home plan is dished.

Why on earth does it happen to me?
I studied and worked so hard
My health , I forgot is the part
That makes it all so worthwhile.
The life pleasures I enjoyed in style
Without a concern about what I could not see
For you see, “they” care not about you and me.
Structures beaming out above us all
Invisible , penetrating the short and the tall
Long term effects that I never had thought
Were the results of what I had bought
Never a word against them expressed
Meant I had agreed by Silent Acquiescence.
Here we are now showered daily
By invisible rays hurting us gaily
Causing illness and pain, murking.
Invisible in plain sight & working.
A shout out to alert others who should care
Goes unheeded , for they are not aware
Until their time arrives sooner than wished ,
The dreams all gone that they relished
Have they connected the dots?
Was it the call of the \$ that stopped
What those in positions of power
Should no longer allow
The cruel results arriving to the unsuspecting masses
Is it the people of our town who matters?

Perhaps forces beyond our control

Are pulling the strings and have the strongest hold.

Where is the critical thinking? Where is the Duty of Care....just **WHAT** are they thinking?