

**Peter Davies**

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**From:** [REDACTED]  
**Sent:** 01 April 2025 11:40  
**To:** planninginfo  
**Cc:** Simon Hicks (Cllr); Anne Eves (Cllr)  
**Subject:** OBJECT to Application DM/25/0589

[REDACTED]  
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cc

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I am writing to **OBJECT to Application DM/25/0589**

The installation of 1 No. 30 metre high lattice tower mounted with 9 No. antennas, 12 No. cabinets, within a compound comprised of 2.4 metre high palisade fencing painted green, 1 No. electrical metre cabinet and associated development thereto.

Land North Of Leylands Road, Burgess Hill West Sussex, RH15 0RZ

[REDACTED]

As the rollout of 4G/5G is a national policy and hence a national issue, this mast concerns locals and non-locals alike.

This is a **PURELY SPECULATIVE APPLICATION.**

There is no evidence of engagement, consultation, or commitment from any of the MNOs. **No end users have been identified.**

It is interesting to note that in various applications throughout the UK, objections have been raised by the MNOs currently operating in the immediate area of a site proposed by such a company. In each case, the MNOs categorically stated that they had not been consulted, committed to anything, had no intention of moving to the proposed site and were fully capable of upgrading when necessary, pointing out the SPECULATIVE nature of the proposal and the inevitable proliferation of masts in the area.

This particular application looks similar.

As there is no MNO currently signed up to use this mast, **the ICNIRP certificate is MISLEADING.**

The ICNIRP certificate is declared "on behalf of all MNOs"

If an MNO has not yet applied to use this, HOW ON EARTH can the applicant guarantee future safety of the installation (as it does on the ICNIRP certificate)? Who has performed the calculations? What calculations have been done? There is ZERO transparency.



In addition, the declaration does NOT conform to what is laid out in the “Code of practice on mobile network development in England” (published Mar-2022) (Annexe C) / NPPF.

- It should be declared by the “lead operator”. Instead, it is declared by Cellnex, who is NOT a lead operator.
- It should state “shall be OPERATED” to be in FULL COMPLIANCE. Instead, it states “is DESIGNED” to be in full compliance. Both in law and common sense, “designed” is very different from “operated”.

As per GPDO Prior Approval legislation, an Operator must be present on the tower. How will the council ensure that if approved, the installation is not built until there is at least one contract with an MNO?

How will the council ensure there is NOT a proliferation of masts?

## **SITING and APPEARANCE**

The area is heavily residential with dwellings on either side of the railway track. At 30m height, this behemoth structure will dominate the immediate area and make its presence very much felt.

Despite trees surrounding the proposed site, they will only provide some “screening” at the lower levels. The 30m lattice tower will dominate the area and thus the top section WILL be HIGHLY visible above tree tops from all angles. Note also that any screening will be seasonal. During autumn/winter, vegetation naturally dies back, hence screening is reduced for half of each year.

Telecoms installations, antennae, etc are overbearing and unnerving. For many people, including myself, they cause anxiety and stress. The impact of this proposal on the health and well-being of locals (including fear and anxiety of harm) is a material planning consideration, which should be taken into consideration.

Telecoms apparatus is an industrialising feature incongruous with residential neighbourhoods and would have a harmful impact on the area.

The proposed site is FAR TOO CLOSE to dwellings (see below for distances) and thus this is an inappropriate siting. Visual amenity from residences will be spoiled.

Being visible also means that it is a constant reminder to the residents in the immediate area of its presence which can cause stress.

The site is also next to a footpath which runs parallel to the railway, which is a popular route for locals, especially dogwalkers.

The size and impact of this development is contrary to NPPF (2024) paras 129 & 131 which aims for well-designed, beautiful places, sympathetic to its history and character, and engagement with community representation.

It is contrary to Code of Practice Para 22 and 28, with the siting of the proposed mast representing a discordant, intrusive feature to the residential character of the surrounding area. Local residents could well find their enjoyment of a peaceful life in their own homes replaced by anxiety and distress over the harmful effects of radiation



and the oppressive nature of this towering monstrosity. Many people throughout the country have already found their lives suddenly catapulted into a stress-fest when similar installations have been put up.

Please NOTE that the fast-moving changes in mobile phone technology and service provision could quickly make this tower obsolete. Mobile phone network providers are considering moving over to satellite provision rather than using masts. Could this mean that all the masts proposed along the railway between Brighton and London would become redundant? EE already offers Starlink services, and it is planned that by 2028 Vodafone will offer this service UK wide. If this is the case, Burgess Bill could well be burdened with a redundant 30m lattice tower ruining the immediate area and spoiling the skyline. Please do factor this into your planning decision.

There is also a concern for the health of any trees that would be close to the proposed mast. This is discussed later.

**The proposed site is within 500m of 'sensitive receptors'** (all distances given are approx.)

Heavily residential area.

The closest dwellings are on Blackthorns and Maple Close (approx. 60m) and Grange Close on the opposite side of the track (approx. 85m = nearest house) + Valebridge Road.

Would the CEO of Cellnex, Avison Young, the Railway Network or any member of government pushing the rollout be happy being so close? Would THEY enjoy such a view or wish to live with the uncertainty of just how safe / dangerous these installations really are? I think not.

- Schools - Manor Field Primary School (300m), Little Explorers Nursery and Pre-school (240m), Platform 3 Pre-school (260m)

A home should be a sanctuary for EVERYONE, but particularly for children. Children are deemed sensitive receptors at school, and this should apply at home too. Likewise, pre-school children and pregnant women are equally vulnerable at home and elsewhere.

Elderly individuals are also considered “sensitive receptors” and more likely to have metal implants (e.g. knee or hip replacements). Individuals with metal implants are not covered by ICNIRP guidelines (see below).

- The distance of 500m is of particular interest after the New Hampshire Commission (and now Bill) recommended a setback of this distance for telecoms installations from residences, schools, and businesses. Please see below for details.

There are now thousands of studies showing harm to humans and wildlife from 2G – 4G, but the more recent real-life 5G case studies (6 published in 2023, 2 published in 2024 so far) from Sweden (Hardell and Nilsson) demonstrate, without a shadow of a doubt, that 5G most definitely causes harm to humans, at levels below those given in



the ICNIRP guidelines. (See sources.) The cases covered individuals living / working close to 5G antennae as well as a family holidaying close to one, and a young 8yo boy who suffered severe symptoms at school.

Symptoms included severe headaches, tinnitus, nosebleeds, insomnia, anxiety, memory loss, irregular pulse, skin rashes, burning skin etc.

The distances from the antennae ranged from 5m to 125m (2023 cases); just under and over 500m (2 base stations), and 285m (2024 cases). **These are similar distances to those in this case.**

I appeal to you as a fellow human, to read the short summary of findings which I have included at the foot of my letter.

I have also included studies wrt 4G installations.

LPAs **CAN** lawfully refuse this mast application on health grounds.

Mendip Planning Board refused a 5G mast application (2021/1951/FUL) in March 2022 on health grounds despite the Case Officers recommendation to approve it.

*The Meeting minutes record the refusal: "RESOLVED - refused contrary to Officer Recommendation due to concerns on the impact to public health for all ages and lack of backed up evidence of the impact to health".*

The planning application was then withdrawn by Telecoms, and the "decision notice" on the portal only records the withdrawal. A copy of the minutes is available on request.

Please also refer to the section below on liability and health.

In addition, Swisscom (telecoms company) made the patent application WO2004075583A1 and disclosed the **carcinogenic nature** of the associated EMF/RF radiation. It also states that the carcinogenic effects are non-thermal, whereas ICNIRP covers only thermal effects.

Further evidence of genetic changes / **carcinogenic effects** was published in July-2024 ("**Cell Tower Radiation Linked to Genetic Changes in Nearby Residents**") (See sources)

Also of great importance are the **SPECIFIC EXCLUSIONS** stated in the ICNIRP guidelines.

**\*\* The ICNIRP Guidelines (2020) specifically excludes individuals with any metal implants or active medical device (AIMD) in their body.**

ICNIRP states that the effect of RFR inside the body is unpredictable when metal implants are present and that people with "implantable medical devices" and "metallic implants" in the body are "outside the scope of these guidelines".

This includes pacemakers, defibrillators, cochlear implants, dental implants, hip replacements and many more.

For anyone who falls under the above categories this can cause fear, anxiety, and distress. As such, these constitute a material planning consideration on the grounds of siting.

PLEASE NOTE: Many people are unaware of the potential risk and gaping hole in the ICNIRP guidance and would not even know to "declare" their medical status in relation



to a planning application. We therefore cannot assume that absence or paucity of objections from locals with such devices reflects the actual number of locals who fall within this excluded category and therefore the potential risk of installing any RFR equipment at the proposed site. This is a growing concern. Please see later.

The Judicial Review (Cardiff Admin Court Case CO/2498/2023) against Cheltenham Council concerned a mast situated close to a block of flats and care home, and the LPA's role in granting approval for the mast application without giving adequate consideration for the health impacts on a resident with metal implants.

In May-2024, Judge Jarman ruled, in relation to the care home, that the existence of a Declaration of Conformity (ICNIRP certificate) was not sufficient with regard to those with metal implants.

*"The failure on the part of the authority to grapple with potential impacts on medical implants was, in my judgment, an error and this ground succeeds"*

<https://www.bailii.org/ew/cases/EWHC/Admin/2024/1035.html>

This was upheld in the subsequent appeal (Cheltenham Borough Council lost their Appeal on 13<sup>th</sup> March 2025, [2025] EWCA Civ 259). \_

[https://assets.caselaw.nationalarchives.gov.uk/ewca/civ/2025/259/ewca\\_civ\\_2025\\_259.pdf](https://assets.caselaw.nationalarchives.gov.uk/ewca/civ/2025/259/ewca_civ_2025_259.pdf)

Further, the UK Health Security Agency has stated that wearers of AIMD's *should* be protected if they respect the ICNIRP public exclusion zones around masts.

<https://www.radiationresearch.org/wp-content/uploads/2025/03/HSA-FOI-response-on-pacemakers.pdf>

and yet applicants do not publish exclusion zones to the LPAs or public and in fact there is a resistance to doing so, as illustrated below.

In August-2024 an application in Stroud (S.24/1123/FUL) documented at length such a scenario. There were 3 locals, with metal implants, living / working close to the site. Acting in accordance with paragraph 122, the LPA requested additional information regarding power output and exclusion zones. The applicant/agent refused to supply this info. Refusal to disclose information raises questions as to why such data should be withheld and raises concerns as to the validity of the ICNIRP certificate issued, if key data used in determining safety is nor forthcoming.

Why is such information not readily available? This lack of transparency casts doubts on the validity of any ICNIRP certificate.

Since ICNIRP specifically excludes individuals with metal implants / AIMDs, please can you find out from the applicant/agent the power outputs and exclusions zones for the proposed mast, to ensure safety of locals living so close to the site?

Surely, it is common sense that a self-certified safety declaration (rather than one produced by an independent and accredited body) does little to instil confidence or allay concerns.

It cannot be stressed enough that individuals with metal implants are specifically NOT covered by the ICNIRP certificate. What guarantee of safety from harm does the applicant give to those individuals?



It can also not be emphasized enough that the NPPF is GUIDANCE only and NOT legislation. If we consider the NPPF as a whole, rather than focus solely on the isolated paragraph (123, NPPF 2024) which applicants/appellants are so keen to do, then how can an LPA or Planning Inspector ratify this against NPPF Chapter 8. Promoting healthy and safe communities, including paragraph 96 which states “Planning policies and decisions should aim to achieve healthy, inclusive and safe places”? Is equal weight not given to all paragraphs of the NPPF?

### Additional questions

**\*\*** How many of your local residents fall within this category and therefore are not covered by the ICNIRP certificate?

*Unless some sort of local risk assessment has been performed to demonstrate the contrary, it is highly likely that the ICNIRP certificate does not cover a large proportion of the local residents. Such people are particularly vulnerable and need to be afforded extra protection under the council's obligations within the Health and Social Care Act 2012.*

*If there is no disability impact assessment in relation to this technology, it could be argued that provisions of the Equality Act 2010 may well have been broken.*

**\*\*** What measures do the Council have in place to reconcile the probable risks to health for the population with metal implants?

**\*\*** How will the Council as LPA evidence their consideration of risks to those with metal implants?

**\*\*** How will the Council abide by the Equalities Act of 2010 that aims to prevent discrimination against disabilities such as electro-hypersensitivity (EHS)?

An increasing number of people are now suffering with EHS (Electro hypersensitivity) which is being exacerbated by the growing number of electronic devices, masts, hubs etc which are becoming ubiquitous. Their day-to-day lives, trying to do normal activities such as shopping (or sometimes even in their own homes), is becoming a stressful and unpleasant, and in some cases, impossible, experience.

EHS was recognised by the tribunal court decision for a schoolgirl who needed a learning environment free of all wifi / mobile connectivity. See sources.

A research paper by Paul Hensinger and Bend I Budzinski (2024) entitled “Why electrohypersensitivity (EHS) is a biologically expected reaction to harmful radiation” explains how the body is affected. (See sources)

**\*\*** How will the Council as LPA monitor and regulate the radiation emissions to ensure the levels are within the ICNIRP guidelines?

Also, worth noting

**\*\*** Self-certification is the telecom company certifying itself, which is **a conflict of interest**. Such a document \_unchecked by an independent body, is UNRELIABLE.



\*\* Both ICNIRP and OFCOM state that they do not issue certificates or verify / guarantee the safety of any device or installation, and therefore do not verify any such self-certified certificate. This is clearly stated on both websites.

\*\* The application lacks transparency. The document declares that the proposed equipment and installation will comply with ICNIRP but does not include the calculations used to draw that conclusion.

\*\* ICNIRP guidelines (2020) only cover HUMANS, NOT animals, plants or the environment. This is a concerning omission as pollinators are in a drastic decline. Studies have also shown that trees are adversely affected by EMFs.

\*\* ICNIRP guidelines only protect against THERMAL effects, not non-thermal effects. There are now thousands of studies showing adverse, NON-thermal effects to human health, at well below the ICNIRP limits.

\*\* The International Commission on the Biological Effects of Electromagnetic Fields (ICBE-EMF) challenged the safety of current wireless exposure limits to radiofrequency radiation (RFR) and called for an independent evaluation.

If we continue to roll out 5G (and also 4G), ignoring the veritable elephant in the room and the genuine concerns of the public, who are rightly worried about the harm these structures will do to their health, then we are heading for a national health crisis in the near future.

Despite, reassurances from the government and telecoms alike, the public are now becoming increasingly aware of the scientific studies which show adverse health effects caused by EMFs at levels well below ICNIRP guidelines. The case studies, mentioned above, not only highlight the reason why members of the public ARE indeed anxious (which is a material planning consideration) but also highlight the need for caution.

## **PLANTS and WILDLIFE**

The council should conserve and enhance the natural environment as per The National Planning Policy Framework (NPPF) (2024) - section 15.

**As mentioned above, ICNIRP makes NO provision for Wildlife and plants in its guidelines.**

**In view of Biodiversity Net Gain, the impact on plants and wildlife needs to be considered.**

It is interesting to note that loss of biodiversity and wildlife on both Mt Nardi in Australia and on Samos (see below sources) occurred in areas where 4G masts had been erected.

Both record DRAMATIC declines in both volume and species type.  
Of particular concern is the detrimental effect of EMFs on pollinators.

5G can cover miles as documented in the INDUSTRY article by NOKIA  
<https://www.nokia.com/thought-leadership/articles/spectrum-bands-5g-world/>

- For low band: “Wireless carriers could serve thousands of customers within hundreds of square miles with just one tower.”



- For mid-band: “it can carry plenty of data while traveling significant distances.”

Therefore, the impact of this mast could be far-reaching (from 4G and 5G).

The site is close to trees. Could any be damaged during groundwork? Any harm to the root structure would threaten the health and longevity of these trees over time. Once up and running, further harm could be done to the trees from radiation. Studies have shown harm to trees by EMFs, and this should also be taken into consideration. See sources for more information.

Trees provide a very positive contribution to the character and appearance of the local area benefiting the mental health and wellbeing of local residents. As such, they should be protected at all costs.

Is there an Environmental Impact Assessment? Under Environmental Law and the ruling against Surrey County council **Finch v Surrey County Council [2024] EWCA Civ 187** that emphasised the importance of public participation in environmental decision making, which is an objective not only of the EIA Directive but also central to the Aarhus Convention; the Court identified two issues in relation to public participation, namely: increasing the democratic legitimacy of environmental decision, and serving an educational function. **An EIA should include the effects of the radiation emitted from all the antennae on the proposed mast (which can be regarded as effluvia or as a pollutant) on public health.**

## LEGAL ISSUES

All public authorities have an obligation and duty to act in the public interest and protect people from harm.

There is **NOT a single study to support** the radiation from this technology being safe **for any human over their lifetime.**

Too much reliance is made on NPPF (2024) Paragraph 123 which states that they cannot set health safeguards different from those set by ICNIRP, but please note that **both the NPPF and ICNIRP are GUIDELINES ONLY, NOT STATUTE.**

As asserted by Lord Gill in the Supreme Court judgment in *Suffolk Coastal District Council v Hopkins Homes Ltd et.al*, ***‘the guidance given by the Framework (the NPPF) is not to be interpreted as if it were a statute. Its purpose is to express general principles on which decision-makers are to proceed’***

<https://www.supremecourt.uk/cases/docs/uksc-2016-0076-judgment.pdf>

The NPPF is just another material planning consideration and should be considered no more or less important than any other. The whole of the NPPF (not just section 10) applies to telecoms applications, and hence the paragraphs on Health are just as valid for telecoms as for any other type of application.

This means that councils ARE free to investigate health issues, and there are cases where health has been taken into consideration, such as in Mendip.

Please note that refusing an application for a specific mast in a designated place is not the same as setting different standards.



Setting different standards would entail creating a new standard for every mast application throughout the borough.

The adjudication of a single application is about the validity and suitability of that application with its specific mast/antennae at the proposed site.

In addition, there is the issue of liability for future litigation.

The solicitor for the campaign group “Stop 5G Bath” received a letter from PHE's own solicitors, DLA Piper, (dated 08-Aug-2019) which exempted PHE from all liability in the event of future legal action relating to health effects from 5G if their guidance should turn out to be incorrect or misleading. In this letter they state: **“A public body must determine how much weight to put on the PHE guidance. Equally that body must determine what other evidence from your client or other members of the public or interested parties to consider in making any decision. If it be alleged that a public body now or in the future acted unlawfully in placing reliance on the guidance, that cannot retrospectively taint the guidance with illegality.”**

*“PHE's lawyers advise public bodies to balance PHE's guidance with evidence from other sources i.e. not only from ICNIRP. This contradicts the government's own planning regulations which require local authorities to adhere strictly to ICNIRP's guidelines... This gives no choice to public bodies about accepting a potentially catastrophic risk.”*

**5G health effects are uninsurable and at the same time recognised by reinsurers as a high impact risk with regard to future litigation.**

*Lloyds of London has refused to insure against health effects from all wireless technology since 2010 (Exclusion 32) and there are currently no insurers in the world who will cover this.*

**5G is rated a high impact risk by reinsurers Swiss Re in their Emerging Risks Report (May 2019)** which states: *“To allow for a functional network coverage and increased capacity overall, more antennas will be needed, including acceptance of higher levels of electromagnetic radiation. In some jurisdictions, the rise of threshold values will require legal adaptation. 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...”*

*“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.”*

*These are referred to by **Wera Hobhouse (MP for Bath) in her letter to DCMS (Feb-2020)***

*More information and sources available on request.*

The insurance industry clearly recognises that potential claims for health impairments may come with a **long latency**. Cases of Cancer Clusters (and other serious adverse effects) are now being recorded in areas in which a mast was installed, approx. 5 – 7 years ago. If this is to happen in your area – then who will be responsible?



Verizon (US-based telecoms company, with offices in the UK) makes provision in their statutory accounts for potential claims regarding the effects of EMF radiation (aka RFR). Would they do so if they were sufficiently indemnified by their insurance policy?

As mentioned earlier, Swisscom (telecoms company) made the patent application WO2004075583A1 and disclosed the **carcinogenic nature** of the associated EMF/RF radiation. It also states that the carcinogenic effects are non-thermal, whereas ICNIRP covers only thermal effects. Further evidence of genetic changes / **carcinogenic effects** was published in July-2024 ("**Cell Tower Radiation Linked to Genetic Changes in Nearby Residents**") (See sources)

The requirement for Local Authorities to reconcile the risks to environmental and public health consequences from radio frequency emitting infrastructure is embedded within the European Electronics Communications Code (EECC). There is a current challenge to the UK government concerning their policies that constrain LPAs to blindly accepting an ICNIRP declaration of conformity. (Case Z2309835, filed 12-Sep-2023)

<https://safetechinternational.org/new-legal-challenge-uk-govt-fail-to-enact-public-health-environmental-obligations-within-european-electronics-communications-code/>

In addition, NPPF (2024) Paragraph 123 (which states that they cannot set health safeguards different from those set by ICNIRP) is in conflict with Paragraphs 198 and 135.

*Paragraph 198: "Planning policies and decisions should also ensure that new development is appropriate for its location taking into account the likely effects **(including cumulative effects) of pollution on health**, living conditions and the natural environment, as well as the potential sensitivity of the site or the wider area to impacts that could arise from the development"*

RFR non-thermal effects are potentially polluting.

Indeed, **The Pollution Prevention and Control Act 1999**, in Section 1(3), defines 'environmental pollution' as, 'pollution of the air, water or land which may give rise to any harm ... (to include) ... (a) pollution caused by noise, heat or vibrations or any **other kind of release of energy**, and by 'air' includes air within buildings and air within other natural or man-made structures above or below ground'.

Clauses (a) and (d) of Section 79(1) of the **Environmental Protection Act 1990**, require local authorities to address "statutory nuisances", defined as

1. *any premises in such a state as to be prejudicial to health or a nuisance,*

*and (d) any dust, steam, smell or other **effluvia** arising on industrial, trade or business premises and being prejudicial to health and a nuisance.*

Further, Local councils have an obligation to safeguard the health of its constituents by virtue of **the National Health Service Act 2006, section 2B.**



*2B Functions of local authorities and Secretary of State as to improvement of public health*

*(1) Each local authority must take such steps as it considers appropriate for **improving the health of the people in its area.***

**Paragraph 135:** *Planning policies and decisions should ensure that developments .....*

*f) create places that are safe, inclusive and accessible and which promote health and well-being.*

## **SUSTAINABILITY, CLIMATE CHANGE and ENERGY CONSUMPTION**

Humans are part of nature, despite our best efforts to disconnect from it and even control it.

Sadly, “sustainability” and “climate change” have become buzz-terms to allow the political hijacking of genuine green issues.

Sadly, “sustainability”, “climate change” and “net zero” have become buzz-terms to allow the political hijacking of genuine green issues.

Those of us who DO ACTUALLY CARE about the health of our planet, recognise that to bring about some sort of balance and restore Earth to a less vulnerable place, we need to take our foot off the techno-pedal, and listen to and observe the natural world around us and what it is telling us.

Councils are committing to net zero by 2030, but it is well worth looking into the green credentials of our technology. It is FAR from green, contrary to what is being touted. As well as being energy hungry, the infrastructure needed to implement the network uses child labour, poor working conditions and devastation to areas caused by intense mining. The energy consumption from cradle to grave is not sustainable. We cannot have technology AND net zero or sustainability. They are totally incompatible!

Is the opportunity for constant connection (or to download a video at the blink of an eyelid) so important to people, that we plunder the earth for its precious metals, leave devastation in its trace, exploit children and poorer communities in the mining process, often in dangerous conditions, and generally pollute our planet? Absolutely not. More importantly, we cannot boast sustainability, whilst this is happening on the other side of the world.

With the big drive for “net zero”, “sustainability” etc, it is essential to understand just how **energy-hungry** our technology is (particularly 5G) with the huge power requirements base stations and associated infrastructure. Facilitating the growth of networks, is in fact counter to the objectives of “net zero”.

In the 2020 Study by the Haut Conseil pour le Climat (HCC) – report “Controlling the carbon impact of 5G” December of 2020, the HCC report found that **5G technology will lead to a significant increase in the carbon footprint of digital technology and could add between 2.7 to 6.7 million tonnes of CO2 equivalents per year by 2030.**



IEEE Spectrum, 5G's Waveform Is a Battery Vampire reports "A 5G base station is generally expected to consume roughly **three times as much power as a 4G base station**. And more 5G base stations are needed to cover the same area"

A 2022 review by the University of Sussex Business School entitled "The energy use implications of 5G: Reviewing whole network operational energy, embodied energy, and indirect effects" published in Renewable and Sustainable Energy Reviews finds that **the notion that 5G is green technology is not currently backed up by a strong, publicly available, fully transparent evidence base.**

Quoted from a planning application from Clarke Telecom (23/00631/TEL, Wakefield), "5G networks, and future mobile generations, will be vital for a range of Internet of Things uses (IoT) and Smart City applications..... The way 5G works, it is closely connected with the Smart City agenda"

In a Cornerstone application (113879/TEL/24, Trafford), advantages of 5G are listed as: the few seconds needed to download a movie; the ultra-fast speed of autonomous vehicles and providing the "backbone for the evolution of the Internet of Things."

These highlight the true reason for 5G: a smart-IoT-vision for the future. There will be no escape.

It beggars belief that we prioritise these over our PRECIOUS HEALTH.

Who voted for SMART cities, IoT, autonomous cars? I do NOT want these, and I don't know anyone else who does. Do your residents?

## **IN SUMMARY**

What we are seeing is a repeat of what happened with the Tobacco industry, when risks were ignored / denied, until a critical mass of data showing damage was no longer possible to brush under the carpet. The drive for constant connection with 4G/5G etc al is far worse because it will be ubiquitous. There is no escape or relief for anyone.

What is paramount and must override every other consideration must be (1) public safety and avoidance of risk and harm to an unsuspecting public that has given no informed consent and (2) protection of our precious wildlife, flora, and natural environment. The public is being kept in the dark, just as they were with tobacco and asbestos (covered in the book "Late Lessons from Early Warnings").

Valid concerns of members of the public should be given a thorough and well considered hearing. I urge you to listen to those concerns.

The ICNIRP guidelines on which LPAs rely so heavily are deeply flawed. Even if all the thousands of health studies showing adverse health effects and harm to wildlife/environment are conveniently ignored, **the 8 recent REAL-LIFE case studies showing harm from 5G exposure PLUS the recent evidence showing genetic changes and carcinogenic effects** should surely make everyone sit up and pay attention to what could happen locally, if we allow all these telecom developments to go ahead unchecked.



PLEASE - Before you dismiss any concerns over health, quoting NPPF (2024) Para 123 (*“should not ..... set health safeguards different from the International Commission guidelines for public exposure”*), I am asking you to consider **and protect** all individuals who are specifically EXCLUDED from the ICNIRP guidelines (as stated above) i.e. those with a metal implant or active medical device in their body. The mere presence of an ICNIRP certificate is irrelevant for such individuals and hence consideration of health for them is NOT setting health safeguards DIFFERENT from ICNIRP, as ICNIRP quite openly admits that they are not covered.

– Surely, we should not adhere rigidly to a “guidance” and neglect the genuine concerns of local residents who after all will have to live with the consequences of the decision and the risks attached to any subsequent installation / upgrade.

Note also that there is **NOT a single study to support** the radiation from this technology (2G – 5G) being safe **for any human over their lifetime.**

Would it not be prudent to exercise the precautionary principle? This is an ethical question, not a scientific one, and the time to invoke the precautionary principle is before harm is done and before we know with full certainty the scientific outcome.

It is interesting to note that Swansea University has announced that Swansea Bay is to be a **“live lab”** for 5G, and likewise WM5G (West Midlands 5G) has been a nominated **testbed** for at least 3 years, and similarly Liverpool. The vocabulary used only confirms suspicions that the UK population is indeed being used as guinea pigs to test out 5G.

By virtue of the nuisance and credible harm or injury to the local residents and to the local area, being sufficient to outweigh the benefits of the development, the application should be refused.

I urge you to REFUSE THIS telecoms application (and all future ones) before irreversible damage is done to your residents and the environment.

I am happy for you to publish my comments.

Please can you acknowledge receipt of this email.

Best Wishes

Judith Reid

## **SOURCES**

### **New Hampshire Commission**

The **New Hampshire HB522 Commission on 5G** (formed by legislation to explore the environmental and health effects of 5G technology) published their findings after a year-long study in Nov-2020. The commission found that wireless radiation is harmful and recommended 1,640 feet (500 metres) as a realistic protective setback distance against radiation from masts. Their recommendation was evidence based, and as such, is globally applicable.



Please note that studies reviewed included those involving earlier generations (3G/4G). Hence this commission is relevant to 4G as well as 5G.

Based on the Commission, the U.S. state of **New Hampshire introduced a bipartisan bill (HB1487) in Dec-2023**, requiring measures to be put in place to inform the public about the health risks of radio-frequency radiation (RFR) (including information online, public service announcements, notifications on poles carrying 5G antennae), wireless antennae to be placed at least 500 metres away from residences, businesses and schools, replacing Wi-Fi with wired technology in schools.

### **FINAL COMMISSION**

**report** <http://www.gencourt.state.nh.us/statstudcomm/committees/1474/reports/5G%20final%20report.pdf>

Video of commission member Kent Chamberlin discussing NH Commission Setback Justification 28-Dec-2021 (20 mins) <https://www.youtube.com/watch?v=DWK74ie7krc>  
**Bipartisan Bill**

<https://legiscan.com/NH/bill/HB1487/2024>

[https://gencourt.state.nh.us/bill\\_status/legacy/bs2016/billText.aspx?sy=2024&id=1797&txtFormat=html](https://gencourt.state.nh.us/bill_status/legacy/bs2016/billText.aspx?sy=2024&id=1797&txtFormat=html)

**8 recently published case-studies demonstrate the real-life effect of 5G on human health. These clearly show that 5G deployment is a serious public safety issue.**

The cases covered individuals living / working close to 5G antennae as well as a family holidaying close to one, and a young 8yo boy who suffered severe symptoms at school.

Symptoms included severe headaches, tinnitus, nosebleeds, insomnia, anxiety, memory loss, irregular pulse, skin rashes etc.

The distances from the antennae ranged from 5m to 125m (2023 cases); just under and over 500m (2 base stations), and 285m (2024 cases).

A summary of the first 6 cases can be found here

[https://www.journalserapublications.com/issues/v01/i01/JEPL\\_1020240101001.pdf](https://www.journalserapublications.com/issues/v01/i01/JEPL_1020240101001.pdf)

The more recent cases are here

<http://www.fortunejournals.com/articles/a-woman-aged-82-years-with-electromagnetic-hypersensitivity-since-almost-four-decades-developed-the-microwave-syndrome-after-insta.html>

<https://www.fortunejournals.com/articles/a-woman-aged-82-years-with-electromagnetic.pdf>

and

<https://www.medtextpublications.com/open-access/an-eight-year-old-boy-developed-severe-headache-in-a-1582.pdf>

- An excellent summary of the first 7 real-life 5G case studies can be found here

**Summary of seven Swedish case reports on the microwave syndrome associated with 5G radiofrequency radiation, Lennart Hardell and Mona Nilsson, June-2024**



[https://www.degruyter.com/document/doi/10.1515/reveh-2024-0017/html?fbclid=IwY2xjawEgeVRleHRuA2FlbQlXMQABHZeG6ToEqT\\_w0ThGuEMZ-cMc73eAkUVGU7du8JNT-b8ZdK2CQOCr-Jz6TQ\\_aem\\_4esr7Pyje9k62298xdJ9tw](https://www.degruyter.com/document/doi/10.1515/reveh-2024-0017/html?fbclid=IwY2xjawEgeVRleHRuA2FlbQlXMQABHZeG6ToEqT_w0ThGuEMZ-cMc73eAkUVGU7du8JNT-b8ZdK2CQOCr-Jz6TQ_aem_4esr7Pyje9k62298xdJ9tw)  
*Published online by De Gruyter June 19, 2024*  
*From the journal Reviews on Environmental Health (<https://doi.org/10.1515/reveh-2024-0017>)*

*“Most prevalent and severe were sleeping difficultly (insomnia, waking nighttime, early wake-up), headache, fatigue, irritability, concentration problems, loss of immediate memory, emotional distress, depression tendency, anxiety/panic, dysesthesia (unusual touched based sensations), burning and lancinating skin, cardiovascular symptoms (transitory high or irregular pulse), dyspnea, and pain in muscles and joints. Balance disorder and tinnitus were less prevalent. All these symptoms are included in the microwave syndrome.”*

*“Our seven case studies, comprising 16 persons, on health effects from real 5G RF radiation exposure, showed that the study persons developed the microwave syndrome after installation of 5G base stations in the neighborhood of their dwellings. .... Very high RF radiation levels, although much lower than limits recommended by ICNIRP and the FCC were measured”*

## **OTHER STUDIES**

### **Case Study showing health effects when working in close proximity to 4G antennae**

Electromagnetic hypersensitivity close to mobile phone base stations – a case study in Stockholm, Sweden

<https://www.degruyter.com/document/doi/10.1515/reveh-2021-0169/html>

Lennart Hardell and Tarmo Koppel From the journal Reviews on Environmental Health

A 55-year-old previously healthy female office worker changed her workplace in April 2018, when she returned to a building in which she had previously worked. This time her office was situated on the 6th floor close to base stations on the roof, where 4G had been installed a couple of years before her return. She had full time work in the office. At the previous working place, she had had no health problems.

In the study: **Mobile Phone Base Station Tower Settings Adjacent to School Buildings: Impact on Students' Cognitive Health Meo et al, 2019**

This studied phone mast exposure of adolescents, the MPBTS **located within 200 metres** from the school.

*\*MPBTS = Mobile Phone Base Station Tower Settings)*

It was identified that EMFs from MPBSTs were associated with a decrease in fine and gross motor skills and spatial working memory and attention in school adolescents. It was recommended that MPBSTs be installed away from thickly populated residential zones, particularly in or near school buildings.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6775553/>

**Why children absorb more microwave radiation than adults – the consequences (Morgan et al, 2014)**

<https://www.sciencedirect.com/science/article/pii/S2213879X14000583>



From the Abstract

*Children absorb more MWR than adults because their brain tissues are more absorbent, their skulls are thinner and their relative size is smaller.*

*MWR from wireless devices has been declared a possible human carcinogen. Children are at greater risk than adults when exposed to any carcinogen. Because the average latency time between first exposure and diagnosis of a tumor can be decades, tumors induced in children may not be diagnosed until well into adulthood. The fetus is particularly vulnerable to MWR.*

*Belgium, France, India and other technologically sophisticated governments are passing laws and/or issuing warnings about children's use of wireless devices.*

### **Adverse health effects of 5G mobile networking technology under real-life Conditions**

Kostoff, Heroux, Aschner, Tsatsakis

Toxicology Letters Volume 323, 1 May 2020, Pages 35-40,

<https://pubmed.ncbi.nlm.nih.gov/31991167/>

<https://www.sciencedirect.com/science/article/abs/pii/S037842742030028X>

This article from **2020** looks at studies so far on “wireless radiation”, both LABORATORY-based and EPIDEMIOLOGICAL.

*“Neither 4G nor 5G have been tested for safety in credible real-life scenarios.”*

It emphasises that laboratory studies are done in pristine conditions, not reflective of real-life, usually excluding the pulsing-modulating carrier signal, and looking singly at the radiation stimulus (i.e. not including other toxic stimuli such as chemical, biotoxins, other radiation which would be experienced in real-life and would act synergistically). Even with these simplified parameters, however, the article states that there are reasons for concern.

*It states that “the results reported in the biomedical literature should be viewed as 1) extremely conservative and 2) the very low ‘floor’ of the seriousness of the adverse effects from wireless radiation, not the ‘ceiling’.”*

*And concludes that “Superimposing 5G radiation on an already imbedded toxic wireless radiation environment will exacerbate the adverse health effects shown to exist. Far more research and testing of potential 5G health effects under real-life conditions is required before further rollout can be justified.”*

### **The evidence demonstrating adverse effects to human health is now overwhelming.**

We are already living in a soup of electro smog. At what critical point do we stand up and say enough is enough? How much more harm needs to be done? See also

- Compilation of Research Studies on Cell Tower Radiation and Health  
<https://ehtrust.org/cell-towers-and-cell-antennae/compilation-of-research-studies-on-cell-tower-radiation-and-health/>
- The BioInitiative 2012 Report <http://www.bioinitiative.org>
- Physicians’ Health Initiative for Radiation and Environment  
<https://phiremedical.org/>



**EAM v East Sussex County Council (Special educational needs)** [2022] UKUT 193 (AAC), where the Upper Tribunal required council to secure EHCP for student who is hypersensitive to Wi-Fi signals (UK).

<https://www.localgovernmentlawyer.co.uk/education-law/394-education-news/51400-upper-tribunal-requires-council-to-secure-ehcp-for-student-who-is-hypersensitive-to-wi-fi-signals>

<https://phiremedical.org/education-health-care-plan-ehcp-awarded-aug-2022-for-uk-child-on-the-basis-of-electromagnetic-hypersensitivity-ehs/> includes statements from the parents, child and excerpts from 3 tribunal hearings.

Upper Tribunal judge Jacobs found that the child should be considered disabled by her condition under the Equality Act 2010 and that she required an Education, Health and Care Plan (EHCP).

### **“Why electrohypersensitivity (EHS) is a biologically expected reaction to harmful radiation” (2024)**

Research paper by Paul Hensinger and Bend I Budzinski

<https://www.diagnose-funk.org/aktuelles/artikel-archiv/detail&newsid=2098>

ICBE-EMF PAPER = [https://icbe-emf.org/wp-content/uploads/2022/10/ICBE-EMF-paper-12940\\_2022\\_900\\_OnlinePDF\\_Patched-1.pdf](https://icbe-emf.org/wp-content/uploads/2022/10/ICBE-EMF-paper-12940_2022_900_OnlinePDF_Patched-1.pdf)

### **SWISSCOM PATENT APPLICATION (WO2004075583A1)\_**

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

Description – the below are **all excerpts from the patent.**

*The influence of electrosmog on the human body is a known problem.*

*When, for example, human blood cells are irradiated with electromagnetic fields, clear damage to hereditary material has been demonstrated and there have been indications of an increased cancer risk (Mashevich M., Folkman D., Kesar A., Barbul A., Korenstein R., Jerby E., Avivi L., Department of Human Genetics and Molecular Medicine, Tel-Aviv University, Tel-Aviv, Israel, "Exposure of human peripheral blood lymphocytes to electromagnetic fields associated with cellular phones leads to chromosomal instability," Bioelectromagnetics, 2003 Feb., 24(2): 82-90).*

*..... These findings indicate that the genotoxic effect of electromagnetic radiation is elicited via a non-thermal pathway. Moreover aneuploidy is to be considered as a known phenomenon in the increase of cancer risk.*

*Thus it has been possible to show that mobile radio radiation can cause damage to genetic material, in particular in human white blood cells, whereby both the DNA itself is damaged and the number of chromosomes changed. This mutation can consequently lead to increased cancer risk. In particular, it could also be shown that this destruction is not dependent upon temperature increases, i.e. is non-thermal.*

### **Cell Tower Radiation Linked to Genetic Changes in Nearby Residents (July 1, 2024)**

<https://microwavenews.com/news-center/cell-tower-radiation-linked-genetic-changes-nearby-residents>

*“More Chromosomal Aberrations*

*Senior European scientists are reporting that people living near cell phone towers show significant changes in their genetic makeup. This is the first time that chronic exposure to cell tower radiation has been linked to unrepairable genetic damage.*



*A team led by Wilhelm Mosgöller of the Medical University of Vienna and Igor Belyaev of the Slovak Academy of Sciences in Bratislava contend that years of low-dose RF exposure can increase the incidence of a number of different types of chromosomal aberrations. Such changes could lead to serious, though uncertain, health consequences, including cancer and neurological disease.”*

## **TREES**

### **\*\* Radiofrequency radiation injures trees around mobile phone base stations (2016)**

[https://www.researchgate.net/publication/306435017\\_Radiofrequency\\_radiation\\_injures\\_trees\\_around\\_mobile\\_phone\\_base\\_stations](https://www.researchgate.net/publication/306435017_Radiofrequency_radiation_injures_trees_around_mobile_phone_base_stations)

And <https://www.ncbi.nlm.nih.gov/pubmed/27552133>

- A detailed long-term (2006-2015) field monitoring study of 120 trees was performed in the cities of Bamberg and Hallstadt (Germany) and demonstrated electromagnetic radiation from phone masts is harmful to trees. \_

*We selected 60 damaged trees, in addition to 30 randomly selected trees and 30 trees in low radiation areas ..... The measurements of all trees revealed significant differences between the damaged side facing a phone mast and the opposite side, as well as differences between the exposed side of damaged trees and all other groups of trees in both sides.....The 30 selected trees in low radiation areas (no visual contact to any phone mast and power flux density under 50µW/m(2)) showed no damage. Statistical analysis demonstrated that electromagnetic radiation from mobile phone masts is harmful for trees. These results are consistent with the fact that damage afflicted on trees by mobile phone towers usually start on one side, extending to the whole tree over time.*

*Additional photos here (published Mar-2022)*

[https://www.researchgate.net/publication/359481325\\_Tree\\_damage\\_caused\\_by\\_mobile\\_phone\\_base\\_stations\\_An\\_observation\\_guide\\_Photos\\_and\\_RF\\_measurements\\_by\\_Cornelia\\_Waldmann-Selsam\\_Additional\\_photos](https://www.researchgate.net/publication/359481325_Tree_damage_caused_by_mobile_phone_base_stations_An_observation_guide_Photos_and_RF_measurements_by_Cornelia_Waldmann-Selsam_Additional_photos)

## **WILDLIFE / INSECTS**

### **5G Cell Towers Cause Massive Insect Decline on the Greek island of Samos (Kordas 2022)**

<https://safetechinternational.org/wp-content/uploads/2022/03/5G-causes-massive-insectdeclines-on-Samos.pdf>

Diana Kordas lives in a rural area on the Greek Island of Samos. Her paper is “an effort to document what has happened in an area which has cell tower radiation but does not have pesticides or monoculture, which has a rich variety of plant life and is surrounded by wild land. It is based purely on observation”.

The paper opens with the alarming statistics “In 2017, a major German study found that flying insects had decreased over 75% in protected areas over the previous 27 years while ruling out climate change and pesticides. In 2021, the bumblebee was declared **extinct in nine** U.S. states.” Her paper includes tables of species observed.



It is Kordas's opinion that "Cell tower radiation is causing insects to die. An ongoing decline in insect numbers occurred after the introduction of 4G/LTE, and the new 5G network on Samos has caused insect declines to reach a tipping point."

### **Mount Nardi Wildlife Report to UNESCO FINAL (2000-2015)**

<https://www.emrsa.co.za/report-for-the-united-nations-educational-scientific-and-cultural-organization/>

and <https://ehtrust.org/wp-content/uploads/Mt-Nardi-Wildlife-Report-to-UNESCO-FINAL.pdf>

This report was prepared by a naturalist/ethno-botanist, local to the area and detailed the dramatic decline in volume and species variety in the Mt. Nardi area of the Nightcap National Park World Heritage Area (home to ancient forest and endangered plants and wildlife) during a 15-year period (2000-2015) as a result of the introduction of digital technologies, 3G, 4G etc.

### **CLIMATE CHANGE, ENERGY CONSUMPTION and SUSTAINABILITY**

2020 Study by the Haut Conseil pour le Climat (HCC) "Controlling the carbon impact of 5G" "Dec-2020"

The HCC report found that **5G technology will lead to a significant increase in the carbon footprint of digital technology and could add between 2.7 to 6.7 million tonnes of CO2 equivalents per year by 2030.**

*References to the 2020 Study by the Haut Conseil pour le Climat (HCC) can be found here*

<https://ehtrust.org/science/reports-on-power-consumption-and-increasing-energy-use-of-wireless-systems-and-digital-ecosystem/>

<https://ehtrust.org/5g-is-a-sinking-ship-slow-poor-performance-and-a-power-hog/?fbclid=IwAR029YFUtklYKIZqnwd6Qjg0kMkt1TCx5QuviYhQgfPRCc1PDzS05NB4Lsl>

<https://www.france24.com/en/europe/20201220-deploying-5g-will-lead-to-spike-in-co2-emissions-french-climate-council-warns>

IEEE Spectrum, 5G's Waveform Is a Battery Vampire reports "A 5G base station is generally expected to consume roughly **three times as much power as a 4G base station**. And more 5G base stations are needed to cover the same area" <https://spectrum.ieee.org/5gs-waveform-is-a-battery-vampire>

A 2022 review by the University of Sussex Business School entitled "The energy use implications of 5G: Reviewing whole network operational energy, embodied energy, and indirect effects" published in Renewable and Sustainable Energy Reviews finds that **the notion that 5G is green technology is not currently backed up by a strong, publicly available, fully transparent evidence base.**

<https://sro.sussex.ac.uk/id/eprint/103944/2/1-s2.0-S1364032121012958-main.pdf>

On Global Electricity Usage of Communication Technology: Trends to 2030 (Published 2015)

[www.mdpi.com/2078-1547/6/1/117/htm](http://www.mdpi.com/2078-1547/6/1/117/htm)



Green 5G or red alert? 23 November 2020 <https://www.meer.com/en/64080-green-5g-or-red-alert>

With 5G's greatly increased mobile traffic, electricity usage from telecommunications could create up to 23% of global greenhouse gas emissions by 2030; power demand would be the equivalent of 36 nuclear reactors or 7800 massive offshore wind farms worldwide.

*Quoted from a planning application from Clarke Telecom "5G networks, and future mobile generations, will be vital for a range of Internet of Things uses (IoT) and Smart City applications..... The way 5G works, it is closely connected with the Smart City agenda and will enable centralized control of lots of different street infrastructure owned or managed by councils, such as streetlights, water meters and bus stops."* <https://planning.wakefield.gov.uk/online-applications/>

### **Useful articles**

**How green is 5G?** <https://envirotecmagazine.com/2021/11/08/how-green-is-5g/>

**What will 5G mean for the Environment?** <https://jsis.washington.edu/news/what-will-5g-mean-for-the-environment/>

**Smart tech's carbon footprint (The Ecologist April-2020)** <https://theecologist.org/2020/apr/30/smart-techs-carbon-footprint>

**The Staggering Ecological Impacts of Computation and the Cloud**

[https://thereader.mitpress.mit.edu/the-staggering-ecological-impacts-of-computation-and-the-cloud/?fbclid=IwAR0dvYDGwxHaT1oASxO58W44bRuhrWSJAbdH4q6z\\_I3Zq9X9cs0ARUt9ORA](https://thereader.mitpress.mit.edu/the-staggering-ecological-impacts-of-computation-and-the-cloud/?fbclid=IwAR0dvYDGwxHaT1oASxO58W44bRuhrWSJAbdH4q6z_I3Zq9X9cs0ARUt9ORA)

Anthropologist Steven Gonzalez Monserrate draws on five years of research and ethnographic fieldwork in server farms to illustrate some of the diverse environmental impacts of data storage.

With a greater carbon footprint than the airline industry, the cloud as a CARBONIVOIRE, which is also water-thirsty (causing water shortages near datacentres), creates noise pollution with devastating effects on neighbours as well as creating "immortal waste" in e-waste graveyards.

**Lithium fields - out of sight, out of mind (ANH article, Oct-2024)**

[https://www.anhinternational.org/news/lithium-fields-out-of-sight-out-of-mind/?utm\\_source=The+Alliance+for+Natural+Health&utm\\_campaign=934e8fabd8-EMAIL\\_CAMPAIGN\\_2024\\_10\\_17\\_03\\_54&utm\\_medium=email&utm\\_term=0\\_934e8fabd8-%5BLIST\\_EMAIL\\_ID%5D&mc\\_cid=934e8fabd8&mc\\_eid=cbf4ae04a2](https://www.anhinternational.org/news/lithium-fields-out-of-sight-out-of-mind/?utm_source=The+Alliance+for+Natural+Health&utm_campaign=934e8fabd8-EMAIL_CAMPAIGN_2024_10_17_03_54&utm_medium=email&utm_term=0_934e8fabd8-%5BLIST_EMAIL_ID%5D&mc_cid=934e8fabd8&mc_eid=cbf4ae04a2)

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