

**ELECTROSENSITIVITY UK'S (ES-UK) RESPONSE  
TO THE CONSULTATION ON 5G  
OF THE DEPARTMENT FOR DIGITAL, CULTURE, MEDIA & SPORT**

OCTOBER 11 2019

**1. 5G, like all man-made radio frequency wireless radiation, is a proven cause of electrosensitivity, cancer and much other ill health**

- 5G, like all radio frequency wireless radiation including 2G, 3G and 4G, is a well proven cause of electrosensitivity, infertility, neurological and cardiovascular harm, and cancers. It should be restricted to prevent continuing harm to citizens in the UK, according to the majority-viewpoint scientists.
- Many hundreds of robust peer-reviewed scientific studies convincingly and consistently prove this.
- For a small number of such studies see: [Selected Studies on ES and EHS](#)

**2. 5G, like all radio frequency wireless radiation, is a proven human carcinogen**

- Radio frequency wireless radiation, including 5G, is already classified as a class 2B human carcinogen, like lead, DDT and diesel exhaust. The vast majority of scientists now agree that there is sufficient animal evidence which shows 'clear evidence' that wireless radiation like 5G causes cancer, together with sufficient proven mechanisms, for it to be regarded as a class 1 certain human carcinogen.

**3. 79% of the UK should be free of 5G and all man-made radiation above long-term biological guidelines**

- Surveys show that 53 million people in the UK (79% of the population) suffer from conscious symptoms and adverse effects of 5G and similar radio frequency wireless radiation, although usually with the cause unrecognised. Therefore 79% of the UK should be totally free of man-made wireless radiation at levels above long-term biological guidelines.
- For numbers and percentages, see: [The Prevalence of People With Restricted Access to Work in Man-Made Electromagnetic Environments](#)

**4. 3.6% of the population suffer conscious symptoms from wireless radiation like 5G**

- Since 2,400,000 people in the UK (3.6%) suffer conscious symptoms caused by wireless radiation like 5G, it is essential that 5G is kept within the international long-term biological guidelines to protect their health.
- 800,000 (1.2%) in the UK are severely affected by wireless radiation like 5G. Some are forced by existing levels of wireless radiation to abandon their homes and try to find remote areas of the country where they are forced to sleep in tents or cars. A few have even fled abroad. This does not accord with established United Nations human rights and should be remedied as soon as possible.

**5. 435,000 people are forced to abandon their jobs in full or part or cannot attend school because of wireless radiation like 5G**

- An estimated 0.65% of the population (435,000 people) have been forced to abandon part or all of their jobs, or forced to abandon school, because of the extraordinarily high levels of radiation current in the UK.

**6. Known ill effects from masts near bedroom windows**

- Where 5G transmitters are located on masts or lamp posts 20 metres from accommodation there have already been recorded cases of severe ill health among the residents. The residents have been forced to abandon their own property irradiated by 5G.
- This physical assault with 5G wireless radiation is unacceptable, socially, morally and legally. The right to enjoy one's property in peace and health is being breached by the deployment of 5G radiation. It is especially distressing where children have been involved, with the risk that they will soon develop electromagnetic hypersensitivity and its symptoms such as infertility, cardiovascular damage and cancer.

**7. It is illogical to allow greater height to masts and antennas if this means that a greater number of people will be irradiated to a greater extent**

- Since it has been proven that 5G, like all radio frequency wireless radiation, causes electrosensitivity and cancer etc., it seems inhumane and immoral to extend its range and injure yet more people.

**8. Current ICNIRP short-term heating guidelines are unscientific and do not protect health**

- The UK's current ICNIRP short-term heating guidelines are unscientific and do not protect health, according to the vast majority of scientists who are experts in this area.
- The minority-viewpoint and pro-industry cartel consists of 14 members of ICNIRP supported by the person in charge of EMF at the World Health Organization (WHO), who is not a medical doctor experienced in diagnosing and treating real electrosensitivity as might be expected, but a trained electrical engineer. In contrast, over 250 expert scientists and doctors signed appeals for the WHO and ICNIRP to abandon their unscientific approach which does not protect human health or wildlife, and instead adopt international long-term biological guidelines.
- The ICNIRP guidelines were voted 'obsolete' by the EU Parliament in 2009 and should have been replaced with international long-term biological guidelines.
- The Parliamentary Assembly of the Council of Europe in 2011 also voted for long-term biological guidelines to protect people with electrosensitivity.
- The ICNIRP short-term heating guidelines are based on Schwan's mistake of 1953, when he ignored the proven non-thermal effects and adopted his long-invalidated hypothesis that bodily heating by one degree in six minutes is the only adverse effect. In fact, it is possible to raise the body's temperature by one degree within six minutes through exercise, but without any of the proven adverse effects of wireless radiation, such as electrosensitivity, infertility, neurological and cardiovascular harm, and cancers.

- Background levels: 0.00002 V/m (0.000001  $\mu\text{W}/\text{m}^2$ ),
- International long-term biological guidelines: 0.006-0.2 V/m (0.1-100  $\mu\text{W}/\text{m}^2$ ).
- ICNIRP's short-term heating guidelines: 61 V/m (9,200,000  $\mu\text{W}/\text{m}^2$ ).
- See: [International EMF Scientist Appeal](#)  
[5G Appeal](#)  
[EMF Call](#)  
[Stop 5G On Earth and In Space](#)

### **9. The UK should be using international long-term biological guidelines**

- All the majority-viewpoint and expert scientists agree that the appropriate guidelines to protect people based on proven scientific evidence are the international long-term biological guidelines.
- International long-term biological guidelines include:  
[Bionitiative 2012](#),  
[EUROPAEM EMF Guideline 2016](#),  
[IGNIR 2018](#),  
[Seletun 2010](#).

### **10. The UK government says it follows WHO and ICNIRP which require international long-term biological guidelines, not ICNIRP's obsolete short-term heating guidelines**

- The UK government says it follows the World Health Organization and its ICNIRP which in 2002 required governments to protect people who are vulnerable at levels below its own ICNIRP short-term heating guidelines, by enacting long-term non-thermal guidelines. The UK government has not yet done so, with the results detailed above, although it still says it follows the WHO and ICNIRP.
- The chair of ICNIRP has said that people should be able to choose which guidelines to adopt, either the international long-term guidelines, or ICNIRP's short-term heating ones. This has also not yet been enacted in the UK.

### **11. Electrosensitivity symptoms recognised as disabling by the WHO, and the Equality Act 2010**

- The WHO in 2005 recognised that the symptoms of electrosensitivity can be disabling, as has been apparent since 1932 when the condition of electrosensitivity was first described in the medical literature. All disabilities and functional impairments are covered by the Equality Act 2010. This means that exposure to the current incredibly high levels of 5G and similar wireless radiation can be disabling for up to 79% of the population.
- This requirement alone, to comply with the Equality Act 2010, as already evidenced from physical injuries from 5G and similar wireless radiation, is sufficient to render 5G and all similar wireless radiation as unfit for human exposure unless at levels compliant with the international long-term biological guidelines. Only this would render 5G as unlikely to infringe the Equality Act.
- Sufficient safe or 'white' zones for people affected can help them live, work, be educated and have equal access to all facilities which other citizens can enjoy. The IGNIR guidelines include Electrosmog Quiet Zones ([EQZ](#)).