

**Comment
by
Arthur Firstenberg,**

on the sentence in Europe Direct's reply:

«As 5G is expected to use smaller cells with lower power levels,
the overall EMF exposure would be distributed
more evenly
and,
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is likely to even
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in areas where 5G is deployed.»

Comment
Arthur Firstenberg

«That statement is not only shocking but wrong. 5G will use smaller cells with *much higher* power levels. The U.S. Federal Communication Commission's limits for millimeter waves have been recently revised upwards to a shocking extent.

In 2016 the FCC established a new section of its rules regulating the "upper microwave" spectrum. They apply to frequencies above 27 GHz: <https://www.law.cornell.edu/cfr/text/47/30.1>. Recently the FCC established the power levels permitted for these frequencies. Section 30.202 provides that base stations using these frequencies are allowed to emit a maximum effective radiated power (EIRP) of 75 dBm per 100 MHz of spectrum: <https://www.law.cornell.edu/cfr/text/47/30.202>. 75 dBm is the same as 30,000 watts! If the company uses 1 GHz of spectrum (i.e. ten times as much spectrum), they are allowed to emit an EIRP of 300,000 watts! Even large towers do not emit so much power. Most large cell towers emit at most an EIRP of 5,000 or 10,000 watts.

I do not know what are the current regulations for Europe in the millimeter range, but the same technology is being deployed worldwide.

The person who wrote that sentence is completely ignorant.»

Europe Direct – 101000430840

7 Mar 2019, 15:18

EDCC

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Thank you for contacting the Europe Direct Contact Centre and for sharing your views.

The European Commission agrees that there is a need for constant updates to scientific knowledge. It funds research through its Framework Programmes on health impacts of exposure to electromagnetic fields (EMF).

Since 2000, more than EUR 37 million have been spent on research on EMF. An example of a project looking at the potential health effects of EMF is GERONIMO. However, the Commission has not conducted studies on potential health risks of 5G technology.

In the context of 5G, the Commission is engaged in discussions with the Member States in the Communications Committee, who assists the Commission in carrying out its executive powers, to establish an overview of national approaches for the protection against non-ionizing radiation.

Current scientific evidence has not linked EMF below the limits recommended by Council Recommendation 1999/519/EC(3) with adverse health problems.

As 5G is expected to use smaller cells with lower power levels, the overall EMF exposure would be distributed more evenly and, therefore, is likely to even decrease in areas where 5G is deployed.

The European Commission's Scientific Committee on Health, Environmental and Emerging Risks (SCHEER) has a standing mandate to provide an independent update of the scientific evidence available, including the assessment of health risks that may be associated with exposure. The Committee has already produced five relevant opinions.

These opinions have not provided any scientific justification to revise the limits set by Council Recommendation 1999/519/EC on the exposure of the general public to electromagnetic fields. These limits are based on guidance issued by the International Commission on Non-Ionizing Radiation Protection (ICNIRP). The ICNIRP is currently reviewing its guidelines and presenting them for public consultation. The Commission is looking forward to the conclusions. The SCHEER may reassess the situation depending on the outcome of this review.

Under Article 168 of the Treaty on the Functioning of the European Union, the primary responsibility for protecting the public from potential harmful effects of electromagnetic fields remains with the Member States, including the choice of measures to be adopted based on age and health status.

The Commission also notes that the European Electronic Communications Code, recently agreed by the co-legislators, will require Member States to pursue consistency and predictability throughout the Union regarding the way the use of radio spectrum is authorised in protecting public health.

The summaries of scientific opinions related to exposure to electromagnetic fields from the SCHEER can be found at the following link:

http://ec.europa.eu/health/scientific_committees/opinions_layman/electromagnetic-fields2015/en/index.htm

We hope you find this information useful. Please contact us again if you have other questions about the European Union, its activities or institutions.

With kind regards,
EUROPE DIRECT Contact Centre
<http://europa.eu> - your shortcut to the EU!

EU leaders would like you to help them steer the right priorities for the years ahead. Take part in this consultation to express your concerns, hopes and expectations about the future of the EU:

https://ec.europa.eu/commission/consultation-future-europe_en

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We would like to ask you 4 questions about the information provided by Europe Direct. It should not take you more than 3 minutes to complete this survey -

<https://forms.communi-k.eu/livewebtools/WebForms/Survey/Survey.html?caseid=101000430840?en>

The question to EU sent from the contact form on the EU website

Subject:

5G

Message:

Dear Madam, Sir,

Could you send me the link to information on your website about: 5G, electromagnetic fields, electromagnetic radiation, guidelines for electromagnetic radiation, independent research about these, also from 2018/2019, also for 4G, because what I find is a 4 year old file:
https://ec.europa.eu/health/sites/health/files/scientific_committees/emerging/docs/scenihr_o_041.pdf

Between 2015 and 2019 there have been thousands more researches, and there are so many opposing the EU research-results about 4G, that it is time to sound the alarm. Evenmore because 5G is not to be found. Not on the website of WHO either. On that website the latest research results are from 2015-2016. Three years old. The guidelines WHO uses are from 1999. Twenty years old.

Because of EU's and W.H.O.'s outdated researches I urge you to hand over to the highest in function in the EU, and EC, because of the health hazards, related with 5G:

1. Research results by Martin L. Pall, PhD Professor Emeritus of Biochemistry and Basic Medical Sciences, Washington State University, USA, published in a PDF, to be found here: <https://www.leefbewust.com/5g.pdf>,
2. The link to the International Appeal, signed by in the meantime total over 50.000 scientists, doctors, nurses, health practitioners, architects, etc. etc. and citizens from all over the world: <https://www.5gspaceappeal.org/the-appeal/> with along list of sources to independent scientific medical reasearch results.
3. The link to The Lancet, Planetary Health / Planetary electromagnetic pollution: it is time to assess its impact:
<https://www.sciencedirect.com/science/article/pii/S2542519618302213>