



Re: Safety concerns re: prosed new cell tower in Carmel.

1 message

Andrea Moore <moore-a@att.net>

Mon, Apr 29, 2019 at 8:22 PM

To: cregig@ci.carmel.ca.us

Cc: mwaffle@ci.carmel.ca.us

Hello,

I'm writing as a concerned citizen, re: a proposed cell tower planned for placement in Carmel, near Lincoln and 10th St.

Research is showing some negative health results from people living near cell towers.

Please read relevant research, place this into the record, and put in the planning commission packet.

<https://healthimpactnews.com/2017/new-5g-cell-towers-and-smart-meters-to-increase-microwave-radiation-invade-privacy/>

<http://emfsafetynetwork.org/wp-content/uploads/2018/05/Letter-to-Seb-Verizon-5G.pdf>

<http://it-takes-time.com/2015/09/22/health-effects-of-cell-towers/>

<https://ehtrust.org/science/cell-towers-and-cell-antennae/compilation-of-research-studies-on-cell-tower-radiation-and-health/>

Thank you for your consideration.

A concerned citizen,

Andrea Moore

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Compilation Of Research Studies On Cell Tower Radiation And Health



What Does the Published Research Say About Cell Tower Radiation and Health

American Academy of Pediatrics Website

“Electromagnetic Fields: A Hazard to Your Health?” on Cell Tower Radiation

“In recent years, concern has increased about exposure to radio frequency electromagnetic radiation emitted from cell phones and phone station antennae. An Egyptian study confirmed concerns that living nearby mobile phone base stations increased the risk for developing:

- Headaches
- Memory problems
- Dizziness
- Depression
- Sleep problems

Short-term exposure to these fields in experimental studies have not always shown negative effects, but this does not rule out cumulative damage from these fields, so larger studies over

longer periods are needed to help understand who is at risk. In large studies, an association has been observed between symptoms and exposure to these fields in the everyday environment.”

–[American Academy of Pediatrics](#)

Compilation of Research Studies on Cell Tower Radiation and Health

Anthony B. Miller, L. Lloyd Morgan, Iris Udasin, Devra Lee Davis, [Cancer epidemiology update, following the 2011 IARC evaluation of radiofrequency electromagnetic fields \(Monograph 102\)](#), Environmental Research, Volume 167, 2018, Pages 673-683, ISSN 0013-9351

Radiofrequency radiation is emitted by cell towers. This review paper concludes that “Based on the evidence reviewed it is our opinion that IARC’s current categorization of RFR as a possible human carcinogen (Group 2B) should be upgraded to Carcinogenic to Humans (Group 1).”

Zothansiana, et al. [“Impact of radiofrequency radiation on DNA damage and antioxidants in peripheral blood lymphocytes of humans residing in the vicinity of mobile phone base stations.”](#) Electromagnetic Biology and Medicine 36.3 (2017): 295-305.

- This study evaluated effects in the human blood of individuals living near mobile phone base stations (within 80 meters) compared with healthy controls (over 300 meters). The study found higher radiofrequency radiation exposures and statistically significant differences in the blood of people living closer to the cellular antennas. The group living closer to the antennas had for example, statistically significant higher frequency of micronuclei and a rise in lipid peroxidation in their blood. These changes are considered biomarkers predictive of cancer.

Meo, S. A., Almahmoud, M., Alsultan, Q., Alotaibi, N., Alnajashi, I., & Hajjar, W. M. (2018). [Mobile Phone Base Station Tower Settings Adjacent to School Buildings: Impact on Students’ Cognitive Health](#). American Journal of Men’s Health.

- High exposure to RF-EMF produced by mobile phone base station towers was associated with delayed fine and gross motor skills, spatial working memory, and attention in school adolescents compared to students who were exposed to low RF-EMF.

[Long-term exposure to microwave radiation provokes cancer growth: evidences from radars and mobile communication systems.](#) Yakymenko (2011) Exp Oncology, 33(2):62-70.

- Even a year of operation of a powerful base transmitting station for mobile communication reportedly resulted in a dramatic increase of cancer incidence among population living

nearby.

[Association of Exposure to Radio-Frequency Electromagnetic Field Radiation \(RF-EMFR\) Generated by Mobile Phone Base Stations \(MPBS\) with Glycated Hemoglobin \(HbA1c\) and Risk of Type 2 Diabetes Mellitus](#), Sultan Ayoub Meo et al, International Journal of Environmental Research and Public Health, 2015

- Elementary school students who were exposed to high RF-EMFR generated by MPBS had a significantly higher risk of type 2 diabetes mellitus relative to their counterparts who were exposed to lower RF-EMFR.

[Neurobehavioral effects among inhabitants around mobile phone base stations](#) Abdel-Rassoul et al, Neurotoxicology, 2007

- This study found that living nearby mobile phone base stations (cell antennas) increased the risk for neuropsychiatric problems such as headaches, memory problems, dizziness, tremors, depression, sleep problems and some changes in the performance of neurobehavioral functions.

Meo SA, Almahmoud M, Alsultan Q, Alotaibi N, Alnajashi I, Hajjar WM, [Mobile Phone Base Station Tower Settings Adjacent to School Buildings: Impact on Students' Cognitive Health](#). Am J Mens Health. 2018 Dec 7:1557988318816914. doi: 10.1177/1557988318816914.

- This study investigated the impact of exposure to radiofrequency electromagnetic field (RF-EMF) radiation generated by mobile phone base station towers (MPBSTs) on cognitive functions. Two hundred and seventeen volunteer male students aged between 13 and 16 registered from two different intermediate schools: 124 students were from School 1 and 93 students were from School 2. The MPBSTs were located within 200 m from the school buildings. In School 1, RF-EMF was 2.010 $\mu\text{W}/\text{cm}^2$ with a frequency of 925 MHz and in School 2, RF-EMF was 10.021 $\mu\text{W}/\text{cm}^2$ with a frequency of 925 MHz. Students were exposed to EMFR for 6 hr a day, 5 days a week for a total period of 2 years. The Narda Safety Test Solution device SRM-3006 was used to measure RF-EMF in both schools, and cognitive functions tasks were measured by the Cambridge Neuropsychological Test Automated Battery (CANTAB). Significant impairment in Motor Screening Task (MOT; $p = .03$) and Spatial Working Memory (SWM) task ($p = .04$) was identified among the group of students who were exposed to high RF-EMF produced by MPBSTs. High exposure to RF-EMF produced by MPBSTs was associated with delayed fine and gross motor skills, spatial working memory, and attention in school adolescents compared to students who were exposed to low RF-EMF.

[Biological Effects from Exposure to Electromagnetic Radiation Emitted by Cell Tower Base](#)

[Stations and Other Antenna Arrays](#), Levitt & Lai, Environmental Reviews, 2010

- This review of 100 studies found approximately 80% showed biological effects near towers. “Both anecdotal reports and some epidemiology studies have found headaches, skin rashes, sleep disturbances, depression, decreased libido, increased rates of suicide, concentration problems, dizziness, memory changes, increased risk of cancer, tremors, and other neurophysiological effects in populations near base stations.”

[Mortality by neoplasia and cellular telephone base stations](#). Dode et al. (Brazil), Science of the Total Environment, Volume 409, Issue 19, 1 September 2011, Pages 3649–3665

- This 10 year study on cell phone antennas by the Municipal Health Department in Belo Horizonte and several universities in Brazil found a clearly elevated relative risk of cancer mortality at residential distances of 500 meters or less from cell phone transmission towers. Shortly after this study was published, the city prosecutor sued several cell phone companies and requested that almost half of the cities antennas be removed. Many antennas were dismantled.

[Epidemiological Evidence for a Health Risk from Mobile Phone Base Stations](#) Khurana, Hardell et al., International Journal of Occupational Environmental Health, Vol 16(3):263-267, 2010

- A review of 10 epidemiological studies that assessed for negative health effects of mobile phone base stations (4 studies were from Germany, and 1 each from Austria, Egypt, France, Israel, Poland, Spain) found that seven showed altered neurobehavioral effects near cell tower and three showed increased cancer incidence. The review also found that eight of the 10 studies reported increased prevalence of adverse neurobehavioral symptoms or cancer in populations living at distances < 500 meters from base stations. Lower cognitive performance was found in individuals living ≤ 10 meters from base stations. None of the studies reported exposure above accepted international guidelines, suggesting that current guidelines may be inadequate in protecting the health of human populations.

[Health effects of living near mobile phone base transceiver station \(BTS\) antennae: a report from Isfahan, Iran](#). Shahbazi-Gahrouei et al, Electromagnetic Biology Medicine, 2013.

- This cross-sectional study found the symptoms of nausea, headache, dizziness, irritability, discomfort, nervousness, depression, sleep disturbance, memory loss and lowering of libido were statistically increased in people living closer than 300 m from cell antennas as

compared to those living farther away. The study concludes that “antennas should not be sited closer than 300 m to people to minimize exposure.”

[How does long term exposure to base stations and mobile phones affect human hormone profiles?](#) Eskander EF et al, (2011), Clin Biochem

- RFR exposures significantly impacted ACTH, cortisol, thyroid hormones, prolactin for females, and testosterone levels for males.

[Investigation on the health of people living near mobile telephone relay stations: Incidence according to distance and sex](#) Santini et al, 2002 , Pathol Bio

- People living near mobile phone masts reported more symptoms of headache, sleep disturbance, discomfort, irritability, depression, memory loss and concentration problems the closer they lived to the installation. Study authors recommend that the minimal distance of people from cellular phone base stations should not be < 300 m.

Navarro EA, Segura J, Portoles M, Gomez-Perretta C, [The Microwave Syndrome: A preliminary Study](#). 2003 (Spain) Electromagnetic Biology and Medicine, Volume 22, Issue 2, (2003): 161 – 169

- Statistically significant positive exposure-response associations between RFR intensity and fatigue, irritability, headaches, nausea, loss of appetite, sleeping disorder, depressive tendency, feeling of discomfort, difficulty in concentration, loss of memory, visual disorder, dizziness and cardiovascular problems.

Two Important Animal Studies on Radiofrequency Radiation

These studies indicate that government limits are non protective. Government limits are based on the assumption that radiofrequency radiation is only harmful at thermal levels. However, the cancers developed in animals in these studies at radiation levels that were non thermal.

Belpoggi et al. 2018, [“Report of final results regarding brain and heart tumors in Sprague-Dawley rats exposed from prenatal life until natural death to mobile phone radiofrequency field representative of a 1.8 GHz base station environmental emission”](#) Environmental Research Journal

- Researchers with the renowned Ramazzini Institute (RI) in Italy performed a large-scale

lifetime [study](#) of lab animals exposed to environmental levels (comparable to allowable limits from cell towers) of RFR radiation and found the rats developed increased cancers- schwannoma of the heart in male rats. This study confirms the \$25 million [US National Toxicology Program](#) study which used much higher levels of cell phone radiofrequency (RF) radiation, but also reported finding the same unusual cancers as the Ramazzini- schwannoma of the heart in male rats. In addition, the RI study of cell tower radiation also found increases in malignant brain (glial) tumors in female rats and precancerous conditions including Schwann cells hyperplasia in both male and female rats.

- “Our findings of cancerous tumors in rats exposed to environmental levels of RF are consistent with and reinforce the results of the US NTP studies on cell phone radiation, as both reported increases in the same types of tumors of the brain and heart in Sprague-Dawley rats. Together, these studies provide sufficient evidence to call for the International Agency for Research on Cancer (IARC) to re-evaluate and re-classify their conclusions regarding the carcinogenic potential of RFR in humans,” said Fiorella Belpoggi PhD, study author and RI Director of Research.
- The Ramazzini study exposed 2448 Sprague-Dawley rats from prenatal life until their natural death to “environmental” cell tower radiation for 19 hours per day (1.8 GHz GSM radiofrequency radiation (RFR) of 5, 25 and 50 V/m). RI exposures mimicked base station emissions like those from cell tower antennas, and exposure levels were far less than those used in the NTP studies of cell phone radiation.
- [Watch Press Conference](#)

Wyde, Michael, et al. “National Toxicology Program Carcinogenesis Studies of Cell Phone Radiofrequency Radiation in Hsd: Sprague Dawley® SD rats (Whole Body Exposure).[Statement on conclusions of the peer review meeting by NIEHS, released after external peer review meeting](#) and the [DNA damage presentation](#).

- This 25 million dollar study is the most complex study completed by the NTP and the world’s largest rodent study on radiofrequency radiation exposure to date which found long term exposure at non thermal levels associated with brain cancer and schwannomas of the heart in male rats. In addition damage to heart was found in all exposure levels. The full report is expected to be released in Fall 2018.

More Important Studies on Cell Tower Radiation

Cindy L. Russell, [5 G wireless telecommunications expansion: Public health and environmental implications](#), Environmental Research, 2018, ISSN 0013-9351

- Radiofrequency radiation (RF) is increasingly being recognized as a new form of [environmental pollution](#). This article reviews relevant [electromagnetic](#) frequencies, exposure standards and current scientific literature on the health implications of 2G, 3G, 4G and 5G.
- Effects can also be non-linear. Because this is the first generation to have cradle-to-grave lifespan exposure to this level of man-made microwave (RF EMR) radiofrequencies, it will be years or decades before the true health consequences are known. Precaution in the roll out of this new technology is strongly indicated.

Noa Betzalel, Paul Ben Ishai, Yuri Feldman, [The human skin as a sub-THz receiver – Does 5G pose a danger to it or not?](#), Environmental Research, Volume 163, 2018, Pages 208-216, ISSN 0013-9351,

- Researchers have developed a unique simulation tool of human skin, taking into account the skin [multi-layer structure](#) together with the helical segment of the sweat duct embedded in it. They found that the presence of the sweat duct led to a high specific absorption rate (SAR) of the skin in [extremely high frequency](#) band that will be used in 5G. "One must consider the implications of human immersion in the electromagnetic noise, caused by devices working at the very same frequencies as those, to which the sweat duct (as a helical antenna) is most attuned. We are raising a warning flag against the unrestricted use of sub-THz technologies for communication, before the possible consequences for public health are explored."

[Mobile phone infrastructure regulation in Europe: Scientific challenges and human rights protection](#)
Claudia Roda, Susan Perry, Environmental Science & Policy, Volume 37, March 2014, Pages 204-214.

- This article was published in Environmental Science & Policy by human rights experts. It argues that cell tower placement is a human rights issue for children.
- "We argue that (1) because protection of children is a high threshold norm in Human Right law and (2) the binding language of the Convention on the Rights of the Child obliges States Parties to provide a higher standard of protection for children than adults, any widespread or systematic form of environmental pollution that poses a long-term threat to a child's rights to life, development or health may constitute an international human rights violation.
- In particular we have explained how the dearth of legislation to regulate the installation of base stations (cell towers) in close proximity to children's facilities and schools clearly constitutes a human rights concern according to the language of the Convention on the Rights of the Child, a treaty that has been ratified by all European States.

[SAFETY ZONE DETERMINATION FOR WIRELESS CELLULAR TOWER](#) Nyakyi et al, Tanzania (2013)

- This research looked at the radiation that cell towers emit and states a safety zone is needed around the towers to ensure safe sleeping areas. The authors state that “respective authorities should ensure that people reside far from the tower by 120m or more depending on the power transmitted to avoid severe health effect.”

[A cross-sectional case control study on genetic damage in individuals residing in the vicinity of a mobile phone base station.](#) Ghandi et al, 2014 (India):

- This cross-sectional case control study on genetic damage in individuals living near cell towers found genetic damage parameters of DNA were significantly elevated. The authors state, “The genetic damage evident in the participants of this study needs to be addressed against future disease-risk, which in addition to neurodegenerative disorders, may lead to cancer.”

[Human disease resulting from exposure to electromagnetic fields](#), Carpenter, D. O. Reviews on Environmental Health, Volume 28, Issue 4, Pages 159172.

- This review summarizes the evidence stating that excessive exposure to magnetic fields from power lines and other sources of electric current increases the risk of development of some cancers and neurodegenerative diseases, and that excessive exposure to RF radiation increases risk of cancer, male infertility, and neurobehavioral abnormalities.

[Signifikanter Rückgang klinischer Symptome nach Senderabbau – eine Interventionsstudie. \(English-Significant Decrease of Clinical Symptoms after Mobile Phone Base Station Removal – An Intervention Study\)](#) Tetsuharu Shinjyo and Akemi Shinjyo, 2014 Umwelt-Medizin-Gesellschaft, 27(4), S. 294-301.

- Japanese study Showed Statistically Significant Adverse Health Effects from electromagnetic radiation from mobile phone base stations. Residents of a condominium building that had cell tower antennas on the rooftop were examined before and after cell tower antennas were removed. In 1998, 800MHz cell antennas were installed, then later in 2008 a second set of antennas (2GHz) were installed. Medical exams and interviews were conducted before and after the antennas were removed in 2009 on 107 residents of the

building who had no prior knowledge about possible. These results lead researchers to question the construction of mobile phone base stations on top of buildings such as condominiums or houses.

[Effect of GSTM1 and GSTT1 Polymorphisms on Genetic Damage in Humans Populations Exposed to Radiation From Mobile Towers](#). Gulati S, Yadav A, Kumar N, Kanupriya, Aggarwal NK, Kumar R, Gupta R., Arch Environ Contam Toxicol. 2015 Aug 5. [Epub ahead of print]

- In our study, 116 persons exposed to radiation from mobile towers and 106 control subjects were genotyped for polymorphisms in the GSTM1 and GSTT1 genes by multiplex polymerase chain reaction method. DNA damage in peripheral blood lymphocytes was determined using alkaline comet assay in terms of tail moment (TM) value and micronucleus assay in buccal cells (BMN). Our results indicated that TM value and BMN frequency were higher in an exposed population compared with a control group and the difference is significant. In our study, we found that different health symptoms, such as depression, memory status, insomnia, and hair loss, were significantly associated with exposure to EMR. Damaging effects of nonionizing radiation result from the generation of reactive oxygen species (ROS) and subsequent radical formation and from direct damage to cellular macromolecules including DNA.

[Subjective symptoms, sleeping problems, and cognitive performance in subjects living near mobile phone base stations](#), Hutter HP et al, (May 2006), Occup Environ Med. 2006 May;63(5):307-13

- Found a significant relationship between some cognitive symptoms and measured power density in 365 subjects; highest for headaches. Perceptual speed increased, while accuracy decreased insignificantly with increasing exposure levels.

Oberfeld, A.E. Navarro, M. Portoles, C. Maestu, C. Gomez-Perretta, [The microwave syndrome: further aspects of a Spanish study](#),

- A health survey was carried out in La Ñora, Murcia, Spain, in the vicinity of two GSM 900/1800 MHz cellular phone base stations. The adjusted (sex, age, distance) logistic regression model showed statistically significant positive exposure-response associations between the E-field and the following variables: fatigue, irritability, headaches, nausea, loss of appetite, sleeping disorder, depressive tendency, feeling of discomfort, difficulty in concentration, loss of memory, visual disorder, dizziness and cardiovascular problems.

[Bortkiewicz et al, 2004 \(Poland\), Subjective symptoms reported by people living in the vicinity of cellular phone base stations: review, Med Pr.2004;55\(4\):345-51.](#)

- Residents close to mobile phone masts reported: more incidences of circulatory problems, sleep disturbances, irritability, depression, blurred vision and concentration difficulties the nearer they lived to the mast.
- The performed studies showed the relationship between the incidence of individual symptoms, the level of exposure, and the distance between a residential area and a base station.

[Wolf R and Wolf D, Increased Incidence of Cancer Near a Cell-phone Transmitter Station, International Journal of Cancer Prevention, \(Israel\) VOLUME 1, NUMBER 2, APRIL 2004](#)

- A significant higher rate of cancer (300% increase) among all residents living within 300m radius of a mobile phone mast for between three and seven years was detected.
- 900% cancer increase among women alone
- In the area of exposure (area A) eight cases of different kinds of cancer were diagnosed in a period of only one year. This rate of cancers was compared both with the rate of 31 cases per 10,000 per year in the general population and the 2/1222 rate recorded in the nearby clinic (area B). The study indicates an association between increased incidence of cancer and living in proximity to a cell-phone transmitter station.

[Changes of Neurochemically Important Transmitters under the influence of modulated RF fields – A Long Term Study under Real Life Conditions\(Germany\), Bucher and Eger, 2011](#)

- German study showing elevated levels of stress hormones (adrenaline, noradrenaline), and lowered dopamine and PEA levels in urine in area residents during 1st 6 months of cell tower installation. Even after 1.5 years, the levels did not return to normal.

[The Influence of Being Physically Near to a Cell Phone Transmission Mast on the Incidence of Cancer \(Umwelt·Medizin·Gesellschaft 17,4 2004\) Eger et al, 2004 \(Germany\)](#)

- 200% increase in the incidence of malignant tumors was found after five years' exposure in people living within 400m radius of a mobile phone mast. The proportion of newly developing cancer cases is significantly higher among patients who live within 400 meters of a cell phone transmitter. Early age of cancer diagnosis.

[Microwave electromagnetic fields act by activating voltage-gated calcium channels: why the current international safety standards do not predict biological hazard](#). Martin L. Pall. Recent Res. Devel. Mol. Cell Biol. 7(2014).

- “It can be seen from the above that 10 different well-documented microwave EMF effects can be easily explained as being a consequence of EMF VGCC activation: oxidative stress, elevated single and double strand breaks in DNA, therapeutic responses to such EMFs, breakdown of the blood-brain barrier, cancer, melatonin loss, sleep dysfunction, male infertility and female infertility.”

Pall ML. 2015. [Microwave frequency electromagnetic fields \(EMFs\) produce widespread neuropsychiatric effects including depression](#). J. Chem. Neuroanat. 2015 Aug 20.

- Non-thermal microwave/lower frequency electromagnetic fields (EMFs) act via voltage-gated calcium channel (VGCC) activation.
- Two U.S. government reports from the 1970s to 1980s provide evidence for many neuropsychiatric effects of non-thermal microwave EMFs, based on occupational exposure studies. 18 more recent epidemiological studies, provide substantial evidence that microwave EMFs from cell/mobile phone base stations, excessive cell/mobile phone usage and from wireless smart meters can each produce similar patterns of neuropsychiatric effects, with several of these studies showing clear dose–response relationships.
- Lesser evidence from 6 additional studies suggests that short wave, radio station, occupational and digital TV antenna exposures may produce similar neuropsychiatric effects. Among 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. In summary, then, 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.



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PO Box 1016 Sebastopol CA 95473 707-827-0109

www.emfsafetynetwork.org

To: Sebastopol Planning Commission
7120 Bodega Ave
Sebastopol, CA, 95472

Request denial of Verizon’s “small cell” towers application

Sebastopol Planning Commissioners,

Verizon has requested a major use permit to install “small cell” towers in Sebastopol in two locations. One is near 6985 Hutchins at S. Gravenstein and another at McFarlane and Woodland. This application would begin to lay the groundwork for 5G, which requires a dense network of cell towers. The proposed towers would add unsightly equipment, overload poles, devalue property, and increase radio frequency radiation (RFR) in our neighborhoods. Peer-reviewed published science shows RFR can cause a wide range of health problems: sleep problems, heart arrhythmias, anxiety, headaches, ringing in the ears, cancer and more. Peer-reviewed published science shows RFR is harmful to the environment. Children, the elderly, and those already ill are more vulnerable.

EMF Safety Network¹ requests the Planning Commission deny Verizon’s application and uphold Sebastopol’s General Plan, Community Health and Wellness Goals, to minimize community exposure to unsafe EMF radiation. We support the city to prioritize wired over wireless for the health, safety, and welfare of our community.

Recently we presented Sebastopol with a letter from attorney Gail Karish of Best Best and Krieger (BBK)² which outlines the legal reasons a California city can deny “small cell” towers in

¹EMF Safety Network (EMFSN) is a Sebastopol based non-profit project founded in 2009. Our mission is to educate and empower people by providing science and solutions to reduce EMFs, achieve public policy change, and obtain environmental justice. We have participated in EMF issues at the local, state and federal level. www.emfsafetynetwork.org

² <http://emfsafetynetwork.org/wp-content/uploads/2018/04/April-24-2018-Letter-to-EMF-Safety-Network-re-Wireless-c1.pdf>



the public rights-of-way. In general, cities still have some control over cell towers, including visual impacts and aesthetics, lack of a significant coverage gap, public utilities code protections, land use, and process rights.

“Small cell” is a junkyard on a pole.

“Small cell” towers are not small, they are many feet taller than other telephone poles and loaded with electrical equipment. These photos to the left are of “small cell” towers on Link Lane and Sebastopol Road in Santa Rosa, California.

Overloading poles can cause a tower to fall or spark a fire like what happened in Malibu in 2007.

“When Santa Ana winds swept through the canyon on Oct. 21, 2007, three utility poles next to Malibu Canyon Road toppled and ignited the fire. The blaze burned 3,836 acres and destroyed or damaged dozens of structures and vehicles.

The poles were jointly owned by SoCal Edison, AT&T Mobility, Verizon Wireless and NextG Networks of California.”³

(Note the Sebastopol Rd. tower in the photo on the left is newly installed and already leaning.)



³ <http://articles.latimes.com/2013/may/20/local/la-me-ln-edison-admits-errors-in-malibu-fire-settles-now-top-60-million-20130520>

Loss of property value: Home or business owners risk property value loss where a cell tower is installed in the neighborhood. A survey by the National Institute for Science, Law & Public Policy found that 94 percent of homebuyers are “less interested and would pay less” for a property located near a cell tower or antenna.⁴

Public Utilities Code Section 7901 provides that use of the roads by telephone companies cannot “*incommode the public use of the road...*” The phrase “incommode the public use” in Section 7901 means “*to unreasonably subject the public use to inconvenience or discomfort; to unreasonably trouble, annoy, molest, embarrass, inconvenience; to unreasonably hinder, impede, or obstruct the public use.*”⁵ If ever there was a situation that caused discomfort, or unreasonably troubled residents, it is the case of cell towers near homes. Cell towers emit RFR and peer-reviewed published science shows RFR harms public health and the environment. The International Agency for Research on Cancer at the World Health Organization classifies RFR as a 2B (possible) carcinogen.⁶

Why we cannot rely on the Federal Communications Commission: FCC proceedings 13-84 and 03-137 were initiated to determine whether their RFR exposure limits and policies created in 1996 need to be reassessed. These proceedings which were filed in 2013 remain incomplete. The federal government has taken sole responsibility for the radiation safety of personal wireless service deployment⁷, however, no federal agency is acting responsibly, or being accountable for protecting the public and the environment from the health effects of RFR. The science has evolved greatly since 1996 meanwhile wireless devices have been widely adopted, as well as forced upon the public, for example: cell towers, wireless in schools, and smart meters. This

⁴ <https://www.businesswire.com/news/home/20140703005726/en/Survey-National-Institute-Science-Law-Public-Policy#.VNRBPp3F-So>

⁵ BBK letter page 2 paragraph 2: <http://emfsafetynetwork.org/wp-content/uploads/2018/04/April-24-2018-Letter-to-EMF-Safety-Network-re-Wireless-c1.pdf>

⁶ IARC/WHO <https://goo.gl/BrkpG8>

⁷ 47 U.S.C. § 332(c)(7); 47 C.F.R. 1.1307(b) and 1.1310, which are based on perceived harm of overheating of human tissues by RFR.

rampant explosion is set to get much worse with 5G, Internet of Things, Smart Cities, radar in cars and more.

The FCC is a regulatory captured agency: Investigative journalist Norm Alster wrote: Captured Agency: How the Federal Communications Commission is dominated by the industries it presumably regulates.⁸ published by Harvard University. Alster calls on the FCC to acknowledge there may be wireless health risks, to back off wi-fi promotion, to acknowledge children and pregnant women may be especially vulnerable, and more. He writes, *“Personally, I don’t believe that just because something can be done it should heedlessly be allowed. Murder, rape and Ponzi schemes are all doable but subject to prohibition and regulation. Government regulators have the responsibility to examine the consequences of new technologies and act to at least contain some of the worst. Beyond legislators and regulators, public outrage and the courts can also play a role but these can be muffled indefinitely by misinformation and bullying.”*

Peer-reviewed published science shows wireless radiation harms public health.

The BioInitiative Reports reference more than 3800 peer-reviewed published studies. Summary of key scientific evidence includes:

- Evidence for Damage to Sperm and Reproduction
- Evidence that Children are More Vulnerable
- Evidence for Effects on Autism (Autism Spectrum Disorders)
- Evidence for Electrohypersensitivity
- Evidence for Effects from Cell Tower-Level RFR Exposure
- Evidence for Effects on the Blood-brain Barrier
- Evidence for Effects on Brain Tumors
- Evidence for Effects on Genes (Genotoxicity)
- Evidence for Effects on the Nervous System (Neurotoxicity)
- Evidence for Effects on Cancer (Childhood Leukemia, Adult Cancers)
- Melatonin, Breast Cancer and Alzheimer’s Disease
- Stress, Stress Proteins and DNA as a Fractal Antenna

⁸ http://ethics.harvard.edu/files/center-for-ethics/files/capturedagency_alster.pdf

“There is now much more evidence of risks to health affecting billions of people world-wide. The status quo is not acceptable in light of the evidence for harm.” David O. Carpenter, MD, co-editor Bioinitiative Report. The authors conclude, *“EMF and RFR are preventable toxic exposures. We have the knowledge and means to save global populations from multi-generational adverse health consequences by reducing both ELF and RFR exposures. Proactive and immediate measures to reduce unnecessary EMF exposures will lower disease burden and rates of premature death.”*^{9,10}

The National Toxicology Program published a 25 million dollar study which is one of the largest and most comprehensive studies on cell phone radiation and cancer in the United States. Results showed that rats exposed to cell phone radiation developed two types of cancers: glioma, a brain tumor, and schwannoma, a heart tumor.¹¹ *A recent Italian study produced similar results.*¹²

International scientists are calling for immediate measures to reduce RFR. The International EMF Scientist Appeal¹³ signed by 235 scientists from 41 nations warn: *“We are scientists engaged in the study of biological and health effects of non-ionizing electromagnetic fields (EMF). Based upon peer-reviewed, published research, we have serious concerns regarding the ubiquitous and increasing exposure to EMF generated by electric and wireless devices. These include—but are not limited to—radiofrequency radiation (RFR) emitting devices, such as cellular and cordless phones and their base stations, Wi-Fi, broadcast antennas, smart meters, and baby monitors as well as electric devices and infra-structures used in the delivery of electricity that generate extremely-low frequency electromagnetic field (ELF EMF).”* “Effects include increased

⁹ BioInitiative Reports <http://www.sciencedirect.com/science/journal/09284680/16/2-3> and www.bioinitiative.org

¹⁰ http://www.bioinitiative.org/report/wp-content/uploads/pdfs/section_1_table_1_2012.pdf

¹¹ NTP cell phone study, general info <http://ntp.niehs.nih.gov/results/areas/cellphones/index.html> Results of 3/2018 peer review: https://ntp.niehs.nih.gov/ntp/about_ntp/trpanel/2018/march/actions20180328_508.pdf

¹² Report of final results regarding brain and heart tumors in Sprague-Dawley rats exposed from prenatal life until natural death to mobile phone radio frequency field representative of a 1.8GHz GSM base station environmental emission
<https://www.sciencedirect.com/science/article/pii/S0013935118300367>

¹³ EMF Scientist appeal <https://www.emfscientist.org/index.php/emf-scientist-appeal>

cancer risk, cellular stress, increase in harmful free radicals, genetic damages, structural and functional changes of the reproductive system, learning and memory deficits, neurological disorders, and negative impacts on general well-being in humans.”

The following are quotes from science experts who signed the The International EMF Scientist Appeal.¹⁴

- *“Based upon epidemiological studies there is consistent evidence of increased risk for brain tumors (glioma and acoustic neuroma) associated with use of wireless phones.”* Lennart Hardell, MD, PhD University Hospital, Orebro, Sweden
- *“The harmful effects of electromagnetic fields, regardless of their frequencies, are now scientifically settled. Pregnant women (the fetus) and children and adolescents are particularly vulnerable.”*- Dominique Belpomme, MD, MPH, Paris V Descartes University, European Cancer & Environment Research Institute.
- *“U.S. regulatory standards and international guidelines only control for short-term heating of tissue. The standards do not protect us from the low-intensity, chronic exposures to electromagnetic fields (EMF) that are common today. The scientists who signed the Appeal request that the UN and member nations protect the global human population, and animal and plant life from EMF exposures. There has been strong support from the international scientific community for the Appeal, even among those who believe that scientists should not take public policy positions. Some have taken personal risks to sign the Appeal because this is a public health issue that affects everyone now, as well as future generations.”* Joel Moskowitz, Ph.D., Director of the Center for Family and Community Health, School of Public Health, University of California, Berkeley, USA

Proximity to RFR antennas is harmful

The following peer-reviewed, published studies examine the adverse effects of wireless radiation in relation to antenna location.

- Biological effects from exposure to electromagnetic radiation emitted by cell tower base stations and other antenna arrays *“Both anecdotal reports and some epidemiology studies have*

¹⁴ <https://www.emfscientist.org/index.php/science-policy/expert-emf-scientist-quotations>

*found headaches, skin rashes, sleep disturbances, depression, decreased libido, increased rates of suicide, concentration problems, dizziness, memory changes, increased risk of cancer, tremors, and other neurophysiological effects in populations near base stations.*¹⁵

- Neurobehavioral effects among inhabitants around mobile phone base stations *“The prevalence of neuropsychiatric complaints as headache (23.5%), memory changes (28.2%), dizziness (18.8%), tremors (9.4%), depressive symptoms (21.7%), and sleep disturbance (23.5%) were significantly higher among exposed inhabitants than controls...”*¹⁶
- Epidemiological Evidence for a Health Risk from Mobile Phone Base Stations *“We found that eight of the 10 studies reported increased prevalence of adverse neurobehavioral symptoms or cancer in populations living at distances < 500 meters from base stations.”*¹⁷

Peer-reviewed, published science shows RFR harms nature

The US Department of the Interior states RFR threatens birds, and criticizes the FCC’s radiation guidelines, stating, *“the electromagnetic radiation standards used by the Federal Communications Commission (FCC) continue to be based on thermal heating, a criterion now nearly 30 years out of date and inapplicable today.”* Two hundred forty-one bird species suffer mortality risk from both tower collisions and from exposure to the radiation towers emit. This includes birds that are endangered or threatened, Birds of Conservation Concern, migratory birds, and eagles. Studies of radiation impacts on wild birds documented nest abandonment, plumage deterioration and death. Birds studied included House Sparrows, White Storks, Collared Doves, and other species. Studies in laboratories of chick embryos documented heart attacks and death.¹⁸

Scientists in Germany studied tree damage in relation to wireless radiation from 2006-2015. They monitored, observed and photographed unusual or unexplainable tree damage, and

¹⁵<http://www.nrcresearchpress.com/doi/pdf/10.1139/A10-018?src=recsys&>

¹⁶ Neurobehavioral effects among inhabitants around mobile phone base stations <https://www.ncbi.nlm.nih.gov/pubmed/16962663>

¹⁷ Epidemiological Evidence for a Health Risk from Mobile Phone Base Stations <https://goo.gl/Zz6dhk>

¹⁸ US Department of Interior letter and background: http://www.ntia.doc.gov/files/ntia/us_doi_comments.pdf

measured the radiation which the trees were exposed. *“The aim of this study was to verify whether there is a connection between unusual (generally unilateral) tree damage and radio frequency exposure.”* They found significant differences between the damaged side of a tree 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 scientists concluded, *“Statistical analysis demonstrated that electromagnetic radiation from mobile phone masts is harmful for trees.”*¹⁹ The following studies show insects are harmed by radiation:

- Food collection and response to pheromones in an ant species exposed to electromagnetic radiation found exposure to radiation caused colony deterioration and affected social insects’ behavior and physiology.²⁰
- Oxidative and genotoxic effects of 900 MHz electromagnetic fields in the earthworm concluded radiation caused genotoxic effects and DNA damage in earthworms²¹.
- Mobile Phone Induced Honey Bee Worker Piping. The study abstract states, *“The worldwide maintenance of the honeybee has major ecological, economic, and political implications.”* Cell phone RFR was tested for potential effects on honeybee behavior. Handsets were placed in the close vicinity of honeybees and the sound made by the bees was recorded and analyzed. The information revealed that active cell phone handsets induced the bees worker piping signal. *“In natural conditions, worker piping either announces the swarming process of the bee colony or is a signal of a disturbed bee colony.”*²²

The following are observations by International scientists of RFR effects on nature²³ :

- *“Migratory birds -- incredibly important to the global economy and for the ecological services they provide -- now appear to be negatively affected by non-ionizing radiation.”* Dr. Albert

¹⁹ Radiofrequency radiation injures trees around mobile phone base stations. <https://www.ncbi.nlm.nih.gov/pubmed/27552133?dopt=Abstract#>

²⁰ Food collection and response to pheromones in an ant species exposed to electromagnetic radiation <https://www.ncbi.nlm.nih.gov/pubmed/23320633>

²¹ Oxidative and genotoxic effects of 900 MHz electromagnetic fields in the earthworm *Eisenia fetida*. <https://www.ncbi.nlm.nih.gov/pubmed/?term=23352129>

²² <https://link.springer.com/article/10.1007/s13592-011-0016-x>

²³ <https://www.emfscientist.org/index.php/science-policy/expert-emf-scientist-quotations>

Manville, Adjunct Professor, Johns Hopkins University; Senior Wildlife Biologist, U.S. Fish & Wildlife Service (FWS), Emeritus/Retired

- *“Man-made electromagnetic fields impact all living organisms, acting first on the unit membrane. We must reduce our dependence on 'wireless' technologies, reduce the numbers of masts (i.e., cell towers), of Wi-Fi apparatus, of cordless phones and so on, and clearly indicate, in public spaces, the intensity of the ambient electromagnetic field.”* Prof. Marie-Claire Cammaerts, PhD., Free University of Brussels, Faculty of Science, Belgium.

5G millimeter waves are harmful

The desired future of the telecommunications industry is 5G which incorporates millimeter waves. A 5G deployment would require many cell towers close together throughout communities. Peer-reviewed published science shows millimeter waves penetrate the skin and affect human health.²⁴ A meta-analysis of studies on millimeter waves (MMWs) “State of knowledge on biological effects at 40–60 GHz”²⁵ states, *“At the cellular level, it stands out from the literature that skin nerve endings are probably the main targets of MMWs and the possible starting point of numerous biological effects.”* Effects reviewed include effects on capillaries and nerve endings, protein insults, epigenetic regulation, and the risk of homeostasis disruption, which would have dramatic consequences. In addition, millimeter wave technology has been developed as a crowd control weapon which causes acute burning pain, as if the body is on fire.²⁶

International independent scientists have called for a moratorium on the deployment of 5G²⁷. They state, *“We the undersigned, more than 180 scientists and doctors from 35 countries, recommend a moratorium on the roll-out of the fifth generation, 5G, for telecommunication until potential hazards for human health and the environment have been fully investigated by scientists independent from industry.”*

²⁴ State of knowledge on biological effects at 40–60 GHz <https://goo.gl/gbBKHL>

²⁵ C. R. Physique 14 (2013) 402–411

²⁶ US Military Active Denial System <http://jnlwp.defense.gov/About/Frequently-Asked-Questions/Active-Denial-System-FAQs/>

²⁷ <http://emfsafetynetwork.org/wp-content/uploads/2017/11/Scientist-5G-appeal.pdf>

Conclusion

The telecommunication industry's unbounded profit motive should never outweigh the safety and well being of the public and our environment! Communications are safer using wired and corded connections. ***Please deny Verizon's cell tower application.***

Respectfully submitted on May 29, 2018:

/s/

Sandi Maurer, Director
EMF Safety Network
PO Box 1016, Sebastopol CA 95473

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April 30, 2019

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New 5G Cell Towers and Smart Meters to Increase Microwave Radiation – Invade Privacy

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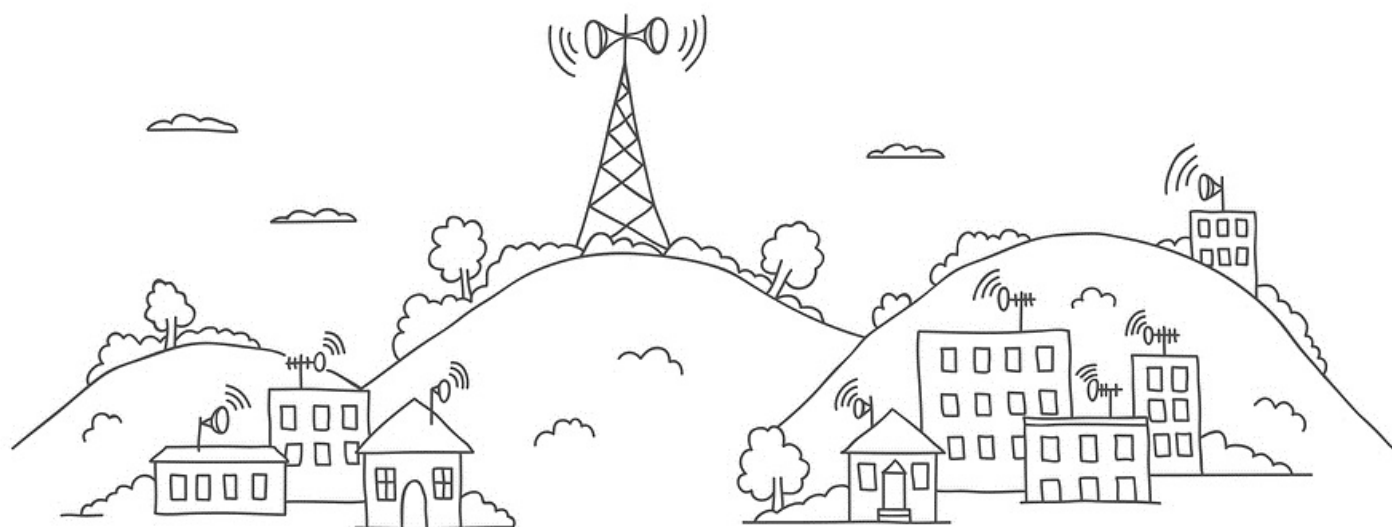
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Telecom Companies are Going Green, but Their Version of Green will cause Illness and Death

by **John P. Thomas**
Health Impact News

When the Federal Communication Commission (FCC) approved the use of 5-G microwave communication technology in 2016 and approved the use of microwave frequencies in the 30 Ghz range, [1], they opened the door to even higher levels of human illness and severe disability for American children and adults.

Microwave radiation such as that currently being used in cell phones, Wi-Fi routers, and smart meters has already been linked to numerous health effects.

The introduction of even more intense levels of microwave exposure at higher frequencies will push many people into life-threatening chronic illness. High frequency microwave radiation is often overlooked as a causative factor in illness, because most conventional healthcare providers, government regulators, telecom companies, and electric utilities believe microwave radiation used in communication technology is harmless. [2]

Despite the warnings being raised by scientists, well informed healthcare providers, and grassroots organizations about existing and future microwave hazards, [3, 4, 5] telecom companies are planning to implement 5G technology throughout every urban area in America. They are already testing this new generation wireless telecommunication infrastructure in Boston, Austin, Palo Alto, and Mountain View California. [6, 7]

In a January 2017 announcement, AT&T described their plan for future technology deployment. The announcement stated:

Our 5G Evolution plans will pave the way to the next-generation of higher speeds for customers. **We're not waiting until the final standards are set to lay the foundation for our evolution to 5G. We're executing now,**" said John Donovan, chief strategy officer and group president, Technology and Operations. [8] [emphasis added]

The Battle to Implement 5G has begun in California



Proposed legislation in California would permit telecom companies to erect 50,000 new microwave antennas in residential and commercial areas without municipal approval.

The 5G microwave antennas would be placed on top of existing utility poles or on public infrastructure such as schools, libraries, bus shelters, and in public parks. The placement of this equipment will be at the discretion of the telecom companies. [9, 10, 11]

Health Dangers of Microwave Radiation have been Well Documented

The symptoms of microwave radiation exposure include fatigue, headaches, heart palpitations, high pitched ringing in the ears, dizziness, disturbed sleep at night, sleepiness in daytime, moodiness, irritability, unsociability, feelings of fear, anxiety, nervous tension, mental depression, memory impairment, pain in muscles, pain in the region of the heart, and breathing difficulties, to name a few.

Inflammation (caused by excess histamine in the blood), oxidative stress, autoimmune responses, reduced blood flow to the region of the thalamus, pathologic leakage of the blood-brain barrier, and a deficit in melatonin metabolic availability have all been observed.

There is evidence that existing and new frequencies of microwave radiation are associated with cancer, heart disease, neurological dysfunction, immune system suppression, cataracts of the eyes, and sperm malformation. [12, 13]

5G Microwaves have Harmful Biological Effects

In her testimony before the California legislature, Dr. Ann Lee, M.D., indicated that there are 20,000 well

established scientific studies on the bio-effects of radio frequency radiation.

She confirmed that microwave radiation such as that from the proposed 5G wireless facilities that would be deployed in California has been shown to cause neurological damage, cardiac dysfunction, reproductive harm, immune compromises, and cancer. [14]

Dr. Ronald Powell, Ph.D., expands upon these concerns. Dr. Powell received his doctorate in Applied Physics from Harvard University in 1975, and has worked for the National Science Foundation and the National Institute of Standards on energy policy research and R&D program evaluation.

He is uniquely qualified to interpret the junction between the physics of electromagnetic fields and the biological effects these fields produce. [15]

In a letter to the FCC, Dr. Ronald Powell stated:

It would greatly extend FCC's current policy of the mandatory irradiation of the public without adequate prior study of the potential health impact and assurance of safety. It would irradiate everyone, including the most vulnerable to harm from radio frequency radiation: pregnant women, unborn children, young children, teenagers, men of reproductive age, the elderly, the disabled, and the chronically ill. [16]

AT&T: Let Us Install Microwave Transmitter on Your Home or Lose Service

Now that more than 50% of homes are wireless, telecom companies plan to abandon copper phone lines used for their phone service and create a wireless phone system. For example, Michigan has passed a law permitting this, and AT&T is working with all 21 states in its service territory to bring this about. [17, 18, 19]

As an alternative to the wired system, telecom companies plan to install wireless microwave transmitters on homes as a method of providing traditional phone service. In the case of AT&T customers, the only way you will be able to prevent them from installing such devices on your home is to remove AT&T as your service provider. [20]

In addition, telecom companies plan to install microwave antennas on top of electrical power poles near homes and businesses, and on top of public buildings throughout every urban area and in every neighborhood.

California Legislators Consider Bill to Allow More Microwave Radiation

But this is not just about offensive looking antennas!

Nina Beety described the situation in the article she wrote for StopSmartMeters.org. She is the moderator of the Wireless Radiation Alert Network and distributes her research about the harmful effects of

electromagnetic fields and the dangers of smart meters on her website, SmartMeterHarm.org.

Nina Beety stated:

Spaced approximately every 10-20 homes, cell antennas will hang in one or more clusters on utility or light poles. Equipment cabinets the size of refrigerators, with cooling fans and back-up generators, will sit on sidewalks. Towers will be located in the public right of way a few feet from bedroom windows, offices, schools, hospitals and nursing homes.

Called “small cells,” there is little difference in size for many of these antennas; the chief difference is the location on utility poles versus large towers. Measurements of these cell towers recently taken in Palo Alto found high levels of radiation on the sidewalk below them — levels higher than those associated in research with breaches in the blood-brain barrier, free radical formation, DNA damage, cancer and tumors, and heart rhythm disturbances. [21]

Nina Beety is specifically describing the proposed system that would be implemented in California if the telecom companies get their way. Currently, a bill permitting the establishment of the 5G system has been passed by the California Senate. A legislative committee will be considering the bill on July 12, 2017. A rally at the State House in Sacramento is planned for July 12th. Please see the following urgent call for action and related links for the details.

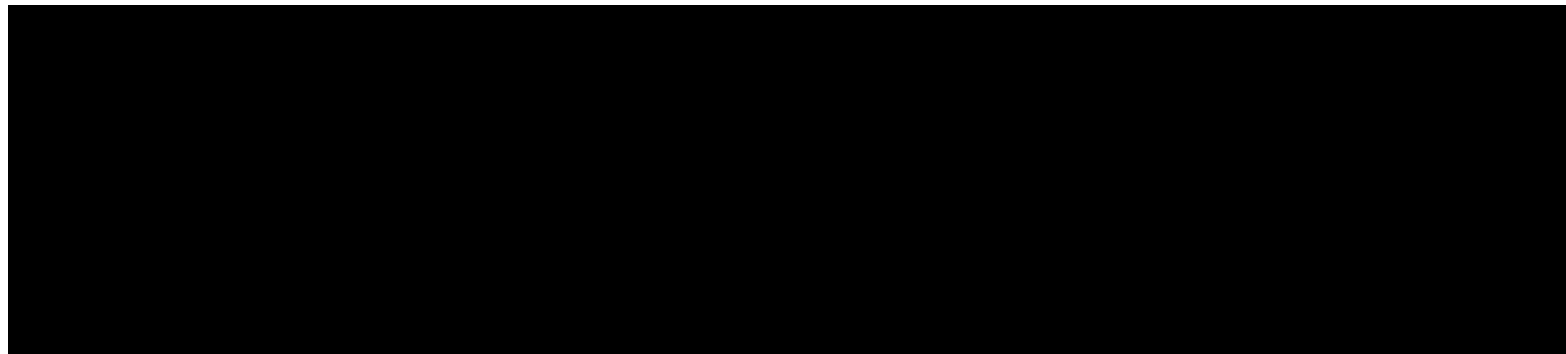
Urgent Call to Action for Californians

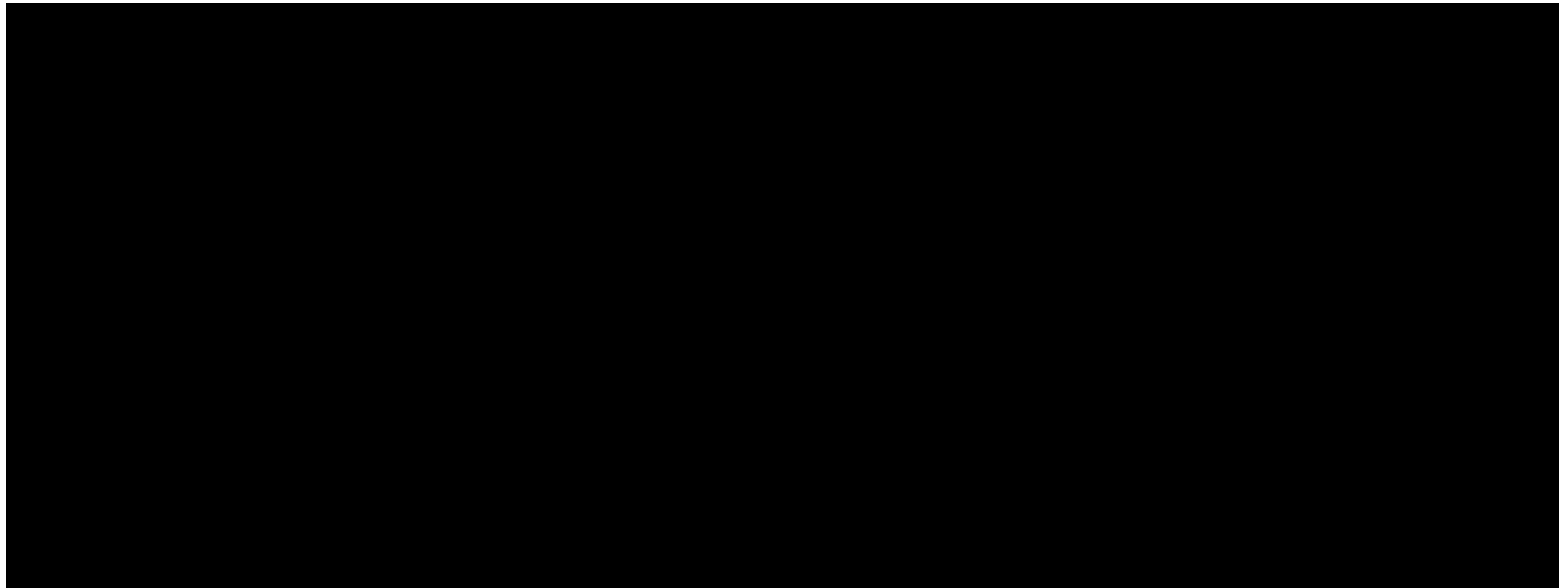
The announcement from StopSmartMeters.org states:

The Assembly Local Government Committee voted 6-1 to approve SB 649 on Wednesday June 28th (even after hearing the below testimony). It goes next to the Communications and Conveyance Committee at 1:30pm on July 12th. People are coming from all over the state to be there on this day to speak out against SB 649, including mayors, and regular people opposed to the bill. Will you be one of them? [23]

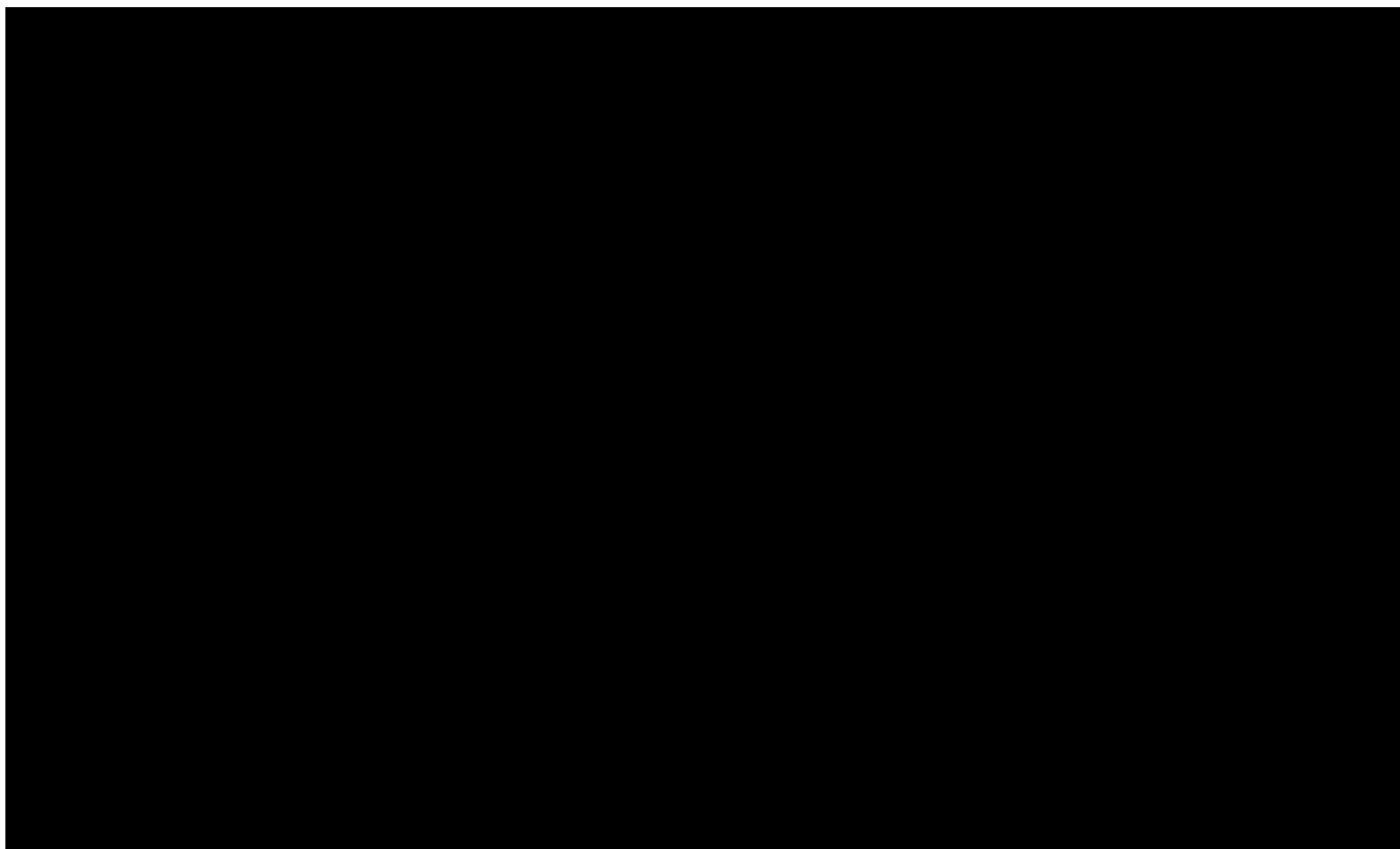
More details about SB 649 and the rally in Sacramento can be found [here](#).

Dr. Ann Lee, M.D., testifies about the Dangers of the Proposed 5G Network:

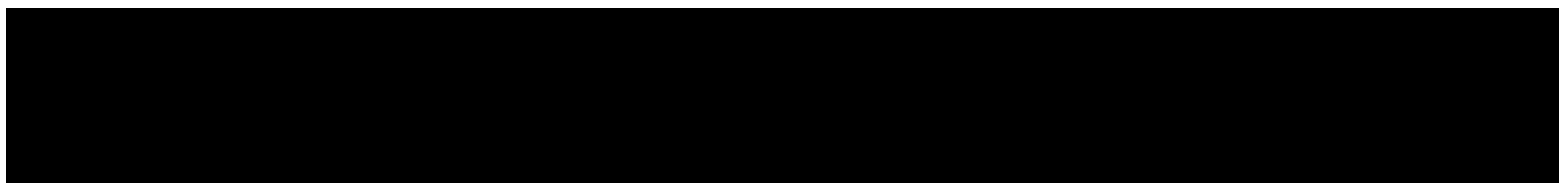


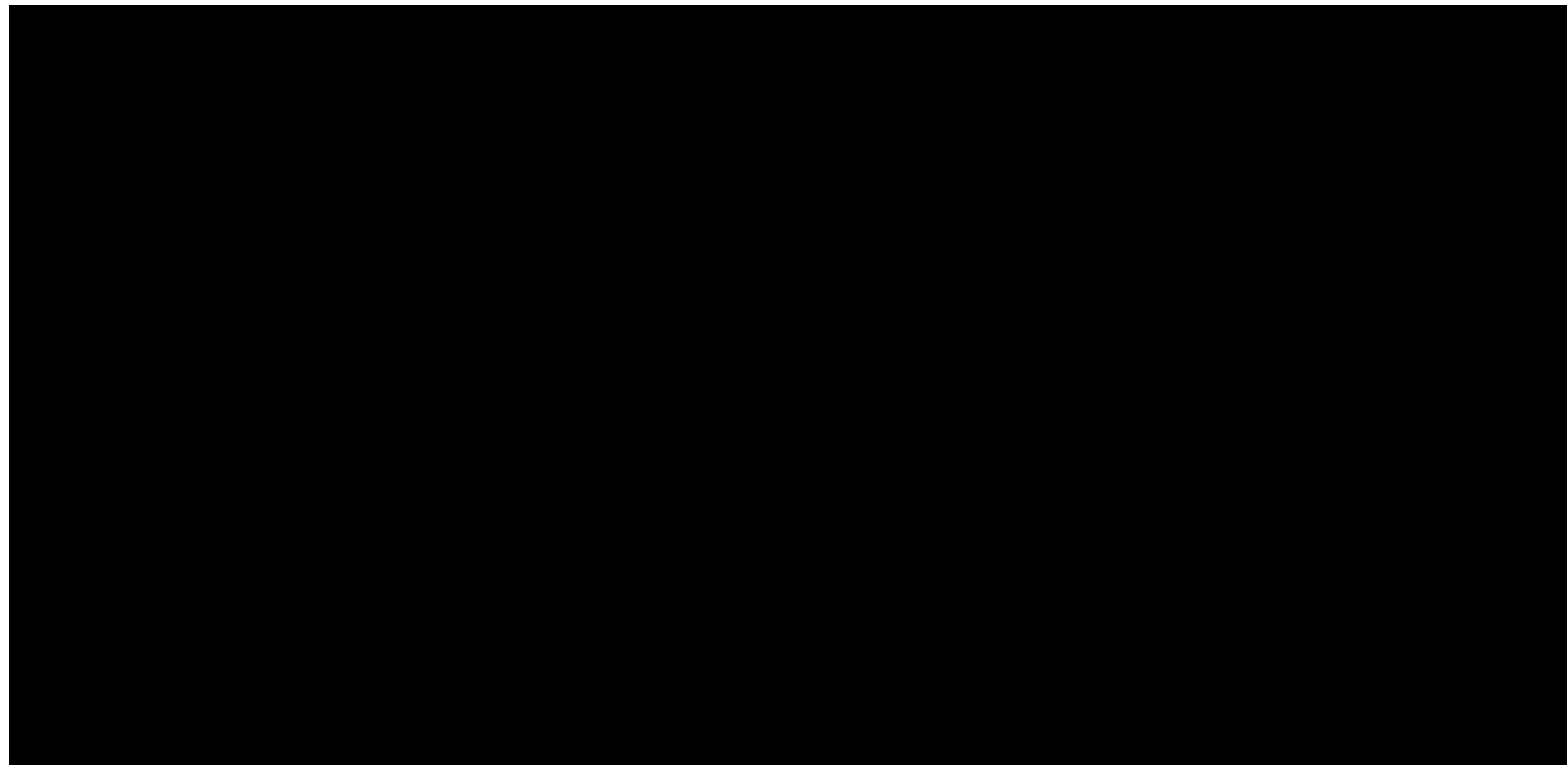


10-Year Old Child Testifies about how Wireless Communications Equipment Affects His Heart:



Nina Beety's Testimony about the Proposed 5G System from the Perspective of an EMF Disabled Person:





Why do Telecom Companies Want a 5G Network? The Merging of Telecommunications with Electric Utilities

Telecom giants plan to take their 5G technology nationwide. It is part of a long-term plan to integrate telecom activities with electrical service providers. A 2015 white paper written by telecom companies, electric utilities, and technology developers published in the European Union describes their vision for the future.

As I interpret the images that these European visionaries are creating, I believe they are foreseeing a day when electrical power production and distribution will be controlled by the 5G network.

In this future vision, large-scale power production facilities will be replaced by hundreds of thousands of small power producers, which could even include personal power production in our homes from solar and wind.

Centralized Power and Control



The 5G system will monitor not just consumption of power, but will monitor and control the redistribution of electrical power across the entire electrical grid.

The 5G network will be the nerves and sense organs of a massive organism that has a central brain somewhere, which controls all forms of information exchange and electric utilization/production.

Electricity will be used for all aspects of household and business activities, and the 5G network and its centralized brain will control everything. [24]

In the beginning, the speed of the 5G network will be marketed to consumers and businesses who want super-fast internet service. This will allow for instant access to videos and webpages with as little as a 5-millisecond delay from the moment a start button is pressed.

Transmission speeds will be hundreds of times faster than current internet connections. It will be so fast that it will be able to instantaneously project images on the lenses of smart enabled eye glasses to create virtual reality images that blend with the environment.

People will be able to watch videos or even read email simply by looking through the lenses of their glasses. The speed will be so phenomenal that it will make available self-driving cars, which can safely drive passengers to their destinations. [25]

Ultimately, the greatest benefit of the 5G system will be for utility companies. It will give them the ability to take total control of electric production, distribution, and consumption.

Smart Meters and Smart Appliances: Your Home is no Longer Private



New Smart Meters.

The smart meters that electric utilities are now installing throughout the U.S. are the nerve endings for what will become a highly complex centrally controlled information and energy exchange system.

The 5G network will use the smart meter system (being implemented throughout the U.S.) and the new generation of smart appliances to reach into our homes and make decisions for us.

Current smart meter technology enables electric utilities to read electric meters without sending a human being to physically read the meters.

Electric providers have been quietly installing these smart meters throughout the U.S. They insist that these meters are harmless even though they broadcast intense bursts of high frequency microwave radiation several times per minute 24-hours per day every day.

Currently, smart meters record electric consumption and transmit the information to the utility company for billing and electric distribution purposes.

The bursts of microwaves are used to communicate with other smart meters in the neighborhood and with wireless routers mounted on top of electric poles. The routers send even more powerful microwave signals several thousand times per hour to the utility company.

Smart appliances such as heating/cooling equipment, washers/dryers, refrigerators/freezers, stoves/microwave ovens, dishwashers, hot water heaters, and even electric coffee makers will each be able to broadcast and receive microwave signals.

These appliances and our smart meters will constantly communicate with one another all day long and all

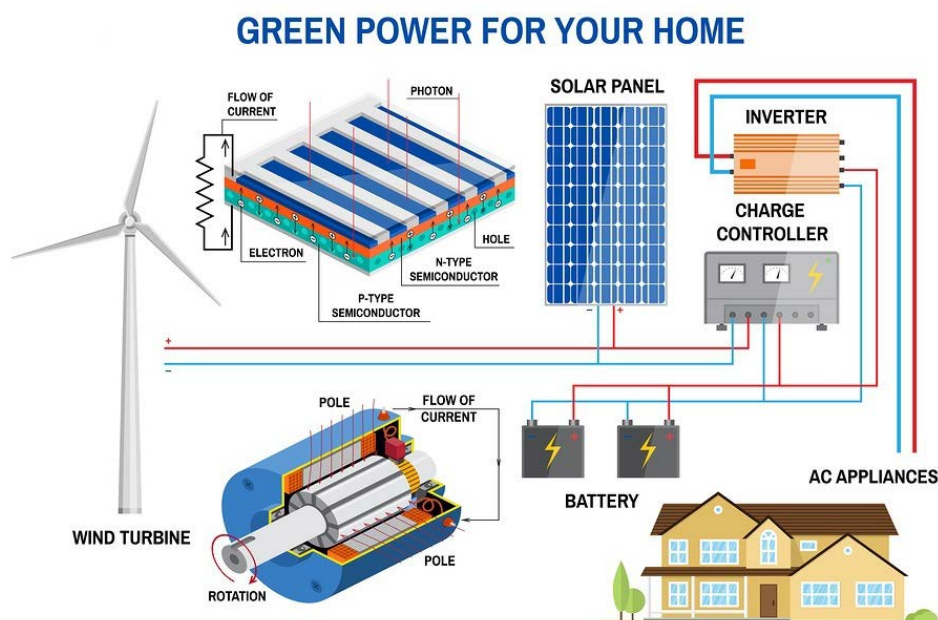
night long – they will never stop transmitting microwave radiation.

Everything that uses electricity will be potentially monitored and controlled by the power companies.

If desired, the electric providers can even independently turn off any appliance they wish whenever they wish to conserve energy consumption. [26, 27]

The need for smart appliances will be a boon for appliance manufacturers and microwave technology producers. The fusion of 5G with the electrical grid will require everyone to buy new appliances that are smart meter enabled or have our existing appliances retrofitted with microwave transmitters.

Is it Green or Just a Way for Corporations to Make More Money and Control Our Lives?



The 5G system goes hand-in-hand with the smart meter system. Together, these systems will be used to create “smart cities.”

These cities will be blanketed in high frequency microwave radiation and will provide the means for enabling a wide variety of new technology.

It is considered to be part of the green revolution. It is part of national technology priorities that were established at the beginning of the first Obama administration. [28]

It is green, because the technology will allow utility providers to closely control energy usage and implement billing systems that will benefit those who reduce energy consumption.

During times of peak energy usage, they will be able to control our appliances and even cut off certain appliances, so that available energy can be directed to high priority uses.

Such a system would supposedly prevent the need for building additional power production facilities, thus

avoiding additional fossil fuel emissions or the creation of additional nuclear waste.

It is green, because telecom companies will no longer need to maintain thousands of miles of copper phone lines and switching equipment. Even though the telecom companies will discontinue the network of copper wire, they will still be using fiber optics for some activities.

There are Serious Health Risks Beyond the 5G Hype

As exciting as a future of blended telecommunications and electrical service technology might be for corporations and some consumers, there are very serious health risks, which the FDA and corporations are ignoring.

They believe that microwave technology used for communication does not affect human health. They believe that it doesn't matter how much microwave radiation is put into the air and what frequencies are used to transmit information.

It doesn't matter, because the single criterion that they use to judge safety is not affected by the new 5G system.

The criterion that is of interest to regulators is heating. Does the technology cause the human body to heat up and is that heating excessive? [29]

Almost anyone who has spoken on a cell phone pressed against their ear for a long phone call will notice that their ear and even the side of their head will feel warm by the time they end the call.

This is the heating effect of microwaves. This is why iPhones come with a warning to keep the phone 15 mm away from the body. [30]

Microwave Radiation Produces Cellular Disruption Even if it is Not Felt

At the beginning of this article, I mentioned a long list of health effects, medical conditions, and chronic illnesses that are associated with microwave exposure.

I plan to look at this research in more detail in my next article. I will address the effect of microwave radiation on heart function and nerve function, and examine the reality of electromagnetic hypersensitivity, which is already disabling hundreds of thousands of people in the U.S. even before the 5G network is implemented.

At this point, I want to finish up with a powerful quote from a recent article on anxiety disorders prepared by Dr. Joseph Mercola, D.O.

In part, the article mentioned microwave exposure as being a potential contributing factor for anxiety disorders. These comments offer additional evidence that the health effects of microwave exposure are profound and are being completely overlooked by regulators.

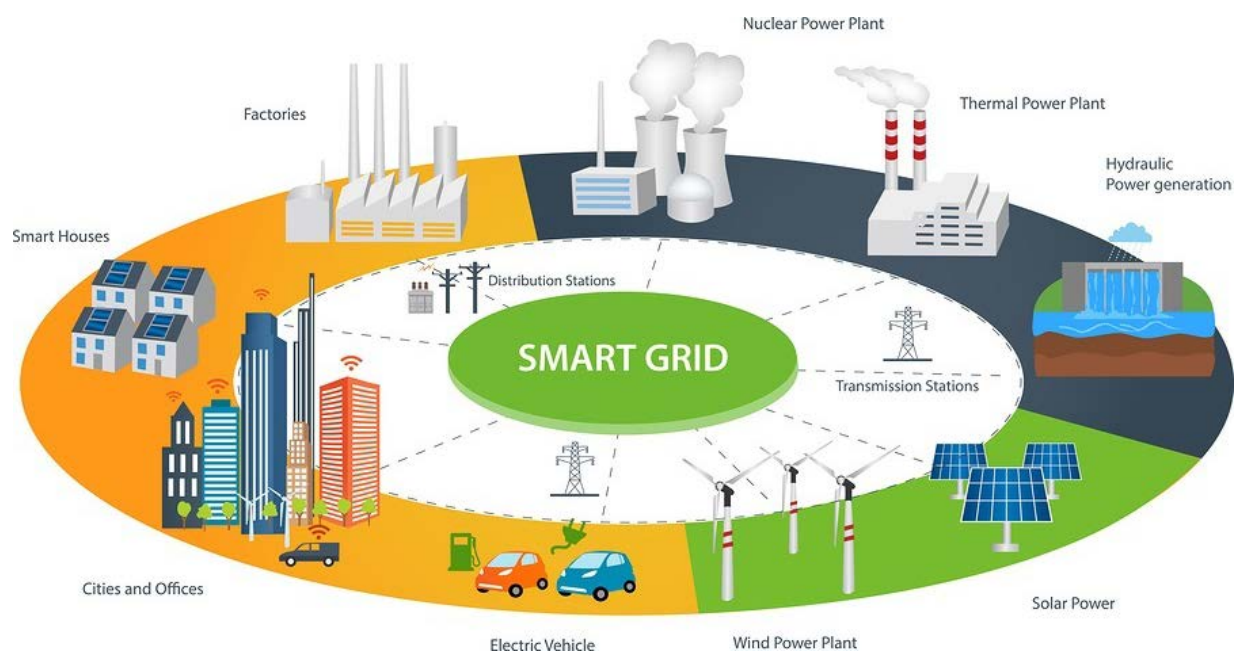
Dr. Mercola's article stated:

Due to the pioneering work of Dr. Martin Pall, we know that voltage gated calcium channels are over 7 million times more sensitive to microwave radiation than the charged particles inside and outside our cells. This means that the safety standards for this exposure are off by a factor of 7 million.

When the EMF from the above listed devices [cellphones and cordless phones, Wi-Fi routers, baby monitors, smart meters and cellphone towers] hit your voltage gated calcium channels, nearly 1 million calcium ions per second are released into the cell, which then causes the cell to release excessive nitric oxide that then combines with superoxide to form peroxynitrate, which then forms the dangerous hydroxyl free radical that causes massive mitochondrial dysfunction.

Guess which tissues have the greatest density of voltage gated calcium channels? Your nerves and tissues, like the pacemaker in your heart and, of course, your brain. When the channels in the brain are activated, it causes a major disruption in neurotransmitter and hormonal balance that can radically increase the risk for not only anxiety and depression but arrhythmias, autism and Alzheimer's. [31]

Final Question: Is the Technology Worth the Harm to Our Health and Loss of Privacy?



There is a very basic question that we must all consider.

Are the dreams of mega-corporations to create smart cities saturated in high frequency microwave electromagnetic fields worth the harm that this technology will create for the people who live in those cities?

In smart cities, no one will be exempt from microwave exposure. We won't be able to opt out, because the 5G microwave system is designed to reach every space in a city.

Those who experience microwave related illness and disability will have few options. They will either stay in the smart city and stay sick or they will need to try to find a place to live in some sparsely populated off the grid location where the 5G system does not reach.

Which future do you want for America? Super-fast internet and corporate control of every aspect of your life, or good health and longevity?

About the Author

John P. Thomas is a health writer for Health Impact News. He holds a B.A. in Psychology from the University of Michigan, and a Master of Science in Public Health (M.S.P.H.) from the School of Public Health, Department of Health Administration, at the University of North Carolina at Chapel Hill.

Resources

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Published on July 7, 2017

Tags: [5G](#), [microwave radiation](#), [smart cities](#), [smart meters](#)

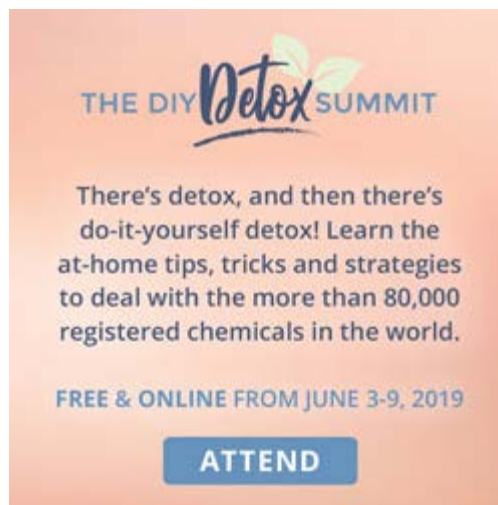
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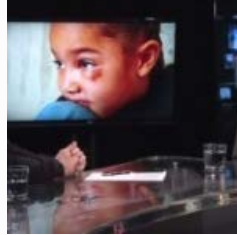
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100 Percent of
Oat Products
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Weedkiller
Glyphosate

6,296 Views



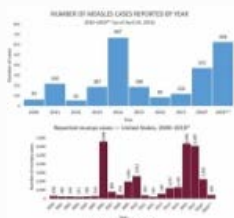
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Why Aren't Mumps Outbreaks Considered "Epidemic" When There are Thousands More Cases of Mumps than Measles?

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IT TAKES TIME

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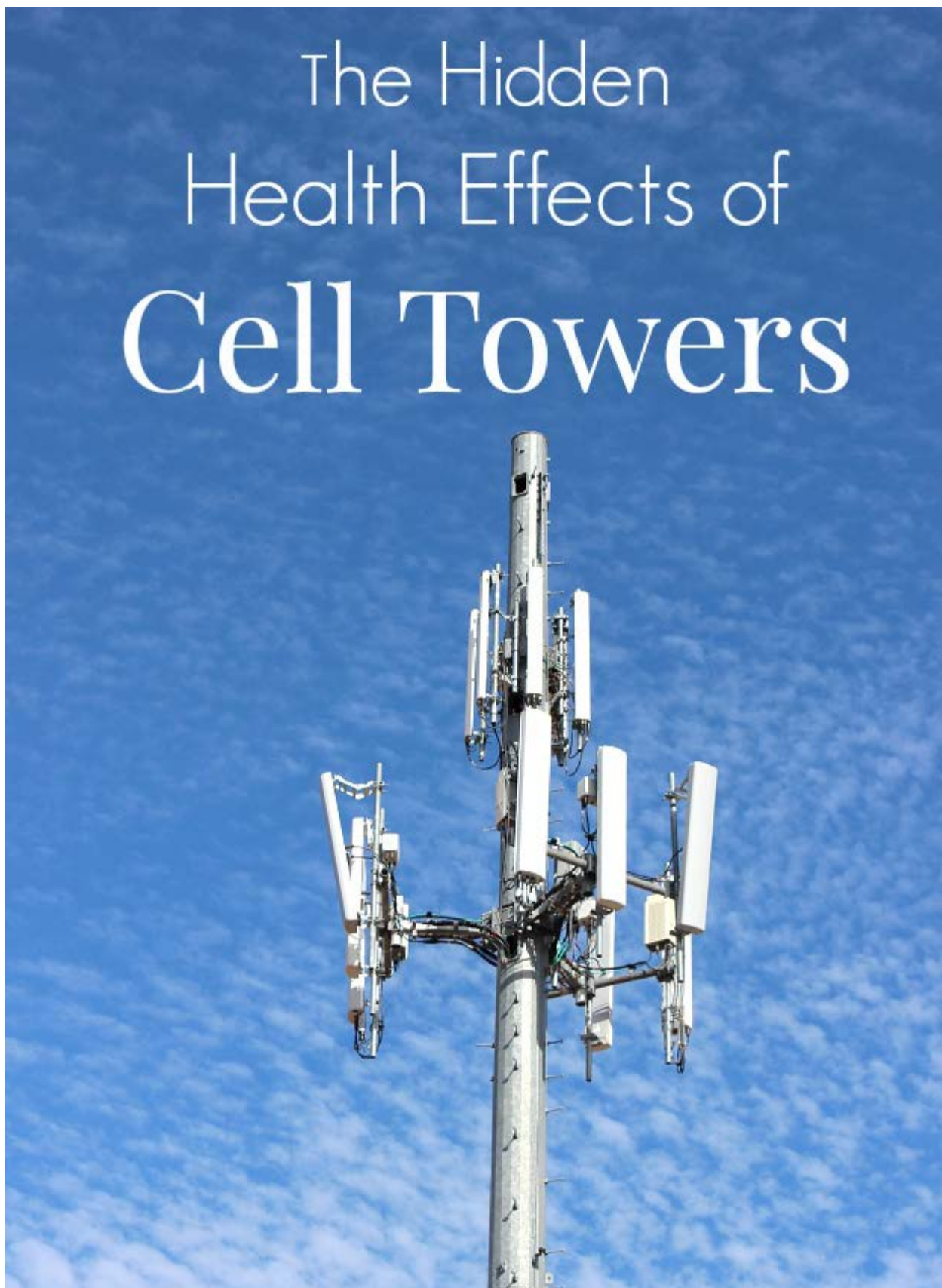
THE HIDDEN HEALTH EFFECTS OF CELL TOWERS



BY ANDREA FABRY — 51 COMMENTS

Cell towers blanket the globe. The United States is home to more than 300,00 cell sites. They appear innocent. But are they?

The Hidden Health Effects of Cell Towers



Cell towers are the base stations that control mobile phone communication. They may or may not be clearly visible in your neighborhood. Sometimes they are disguised as cacti, trees, or even flags.



A GOOGLE SEARCH SHOWS AN ARRAY OF CELL TOWER DISGUISES.

Because we can't see, feel or smell the electromagnetic radiation coming from a cell tower (or cell site which includes towers, antenna masts and other base station forms), it's hard to believe there is any potential for harm.

In fact, the Federal Communications Commission, our government's regulating agency, has made sure health concerns *aren't addressed* when cell tower applications are considered. According to the Telecommunications Act of 1996,

"No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions."

(Localities are permitted to reject a cell tower if the tower is deemed unsightly, which is one reason for the disguises.)

The wireless industry has relied on this legal favoritism, banking on consumer trust in government oversight. After all, wouldn't we know if cell towers (or cell phones) are unsafe?

THE HIDDEN HEALTH EFFECTS OF CELL TOWERS

THE FCC AND A CONGRESSIONAL CHALLENGE

The FCC already agrees that cell tower *workers* may be injured by these fields because of the proximity. While the **FCC position** is solely based on thermal effects of non-ionizing radiation, it is clear the agency

agrees that cell tower workers may be at risk of adverse health effects (emphasis mine):

Studies have shown that environmental levels of RF energy routinely encountered by the general public are far below levels necessary to produce significant heating and increased body temperature (References 32, 37, 45, 46, 48 and 54). **However, there may be situations, particularly workplace environments near high-powered RF sources, where recommended limits for safe exposure of human beings to RF energy could be exceeded. In such cases, restrictive measures or actions may be necessary to ensure the safe use of RF energy.**

How well is the FCC monitoring these levels? Sen. Richard Blumenthal of Connecticut and Rep. Anna Eshoo of California believe the FCC has dropped the ball when it comes to monitoring and regulating the safety of cell towers, especially when it comes to cell site workers. The lawmakers issued a [challenge to the FCC on September 17, 2015](#),

Excessive exposure to RF radiation leads to well-documented potential harms, especially to workers who spend time near the antenna and in the line of the antenna's beam. At sufficient power levels and exposure durations, RF radiation has the ability to heat biological tissue. Thermal effects can include eye damage, sterility, and cognitive impairments.

We urge the FCC and the Occupational Safety and Health Administration (OSHA) to work together to enforce exposure limits and ensure wireless carriers are taking the required precautions to **protect the safety of all persons who may be exposed to dangerous levels of RF radiation near wireless towers.**

If the FCC agrees that cell tower workers are at risk, and two members of Congress are concerned enough to issue a reprimand, what does this say about the overall safety of cell sites?

STUDIES THAT DEMONSTRATE A HEALTH RISK

The World Health Organization officially classifies electromagnetic radiation a [possible 2B carcinogen](#). (The same category as lead, DDT, and styrene.)

The following studies suggest short-term and long-term health risks within 300-400 meters of a cell tower. (Less than three-tenths of a mile)

- [Santini Study](#)

This is a compelling survey of 270 men and 260 women showing changes in symptoms in relation to cell

tower proximity. Note the decrease in reported headaches the further from the cell site.

Table I. Percentages of complaints reported compared to responses of a level of « 0 », by persons living in the vicinity of base stations as a function of their distance away from a base station.

Symptoms	Distances from base stations in meters (m)											
	< 10 m		10 to 50 m		50 to 100 m		100 to 200 m		200 to 300 m		> 300 m ...	
	2	3	2	3	2	3	2	3	2	3	2	3
Fatigue	76 *	72 *	63.5*	50.9*	60.6	56.6*	64.2	41.1	66.6*	43.7	40.7	27.2
Irritability	32.8	23.2*	41.7*	25.7*	47.2*	44.1*	25.8	4.1	25	9	18	3.3
Headaches	51 *	47.8*	40 *	26.1*	40.6*	36.7*	60.7*	31.2*	19.3	0	15.6	1.8
Nausea	14.5*	6.9	8.4	3	5.7	3.8	2.4	4.6	0	2.3	2.1	1.1
Loss of Appetite	20.4*	8.3	8	5.5	5	5	6.9	0	4.2	0	3.3	3.3
Sleep Disruption	41.3*	57.1*	41.4*	57.5*	46.9*	58.5*	45.8*	50*	33.3	35.5	13.8	21.1
Depression	16.9	26.8*	21.6	19.7*	11.6	24 *	16.2	3.1	13.6	2.5	10.3	3.7
Feeling of Discomfort	28 *	45.4*	25.2*	18.9	30.6*	12.8	15.7*	0	9.7	5.1	2.4	8.1
Difficulty in concentration	39.3	28.8*	37.5	16.6	34.2	26.4*	25	12.5	43.3	5.5	26.7	7.1
Memory Loss	27.8	25.4*	29.4	26.6*	37.1*	29 *	25	15.6	17.2	11.1	17.9	5.8
Skin Problems	18.1*	17.1*	6.6	10.8	11.1*	11.1	13.9*	7.5	8.7	0	1.2	4.6
Visual Disruptions	14.5	24.3*	23	13.5	22	7.1	2.5	4.9	15	2.8	13.6	4.1
Hearing Disruptions	33.3*	17.4	17.7*	12	8.3	15.5	7.7	7.7	11.6	9.5	5.6	8.7
Dizziness	10	12.5*	17.3*	7.5*	9.6	9.6*	12.2	2.7	7.7	5.2	6.2	0
Movement Difficulties	5.6	7.7*	8.2	1.7	3	3	0	0	2	0	2.9	1
Cardio-vascular Problems	10.1*	13 *	15.3*	9.6	12.3*	7.4	8.7	0	8.5	6.5	1	3

* Significant difference ($p < 0.05$) in comparison to reference subjects found at > 300 m or not exposed, for the responses 2 - « often » and 3 - « very often ».

- [Kempton West Study \(2007\)](#)

Researchers measured blood levels of serotonin and melatonin in 25 participants before and after the activation of a new cell site. There were unfavorable changes in almost all participants.

- [Naila Study \(2004\)](#)

Researchers discovered a threefold increase in cancers after five years exposure to microwave radiation from a nearby mobile phone mast transmitter compared to those patients living further away.

- [France Questionnaire \(2003\)](#)

Researchers in France found significant health effects on people living within 300 meters of mobile phone base stations. Fatigue, sleep disturbance, headaches, concentration problems, depression, memory problems, irritability, cardiovascular problems, hearing disruption, skin problems, dizziness, etc.

(For a comprehensive list of studies linking cell towers to adverse health effects, see [Electromagnetic Health.](#))

As noted above current FCC regulations are based on thermal effects. Thanks to the [BioInitiative Report](#)

2012 we now have a compilation of more than 1800 studies showing biological effects from non-ionizing radiation.

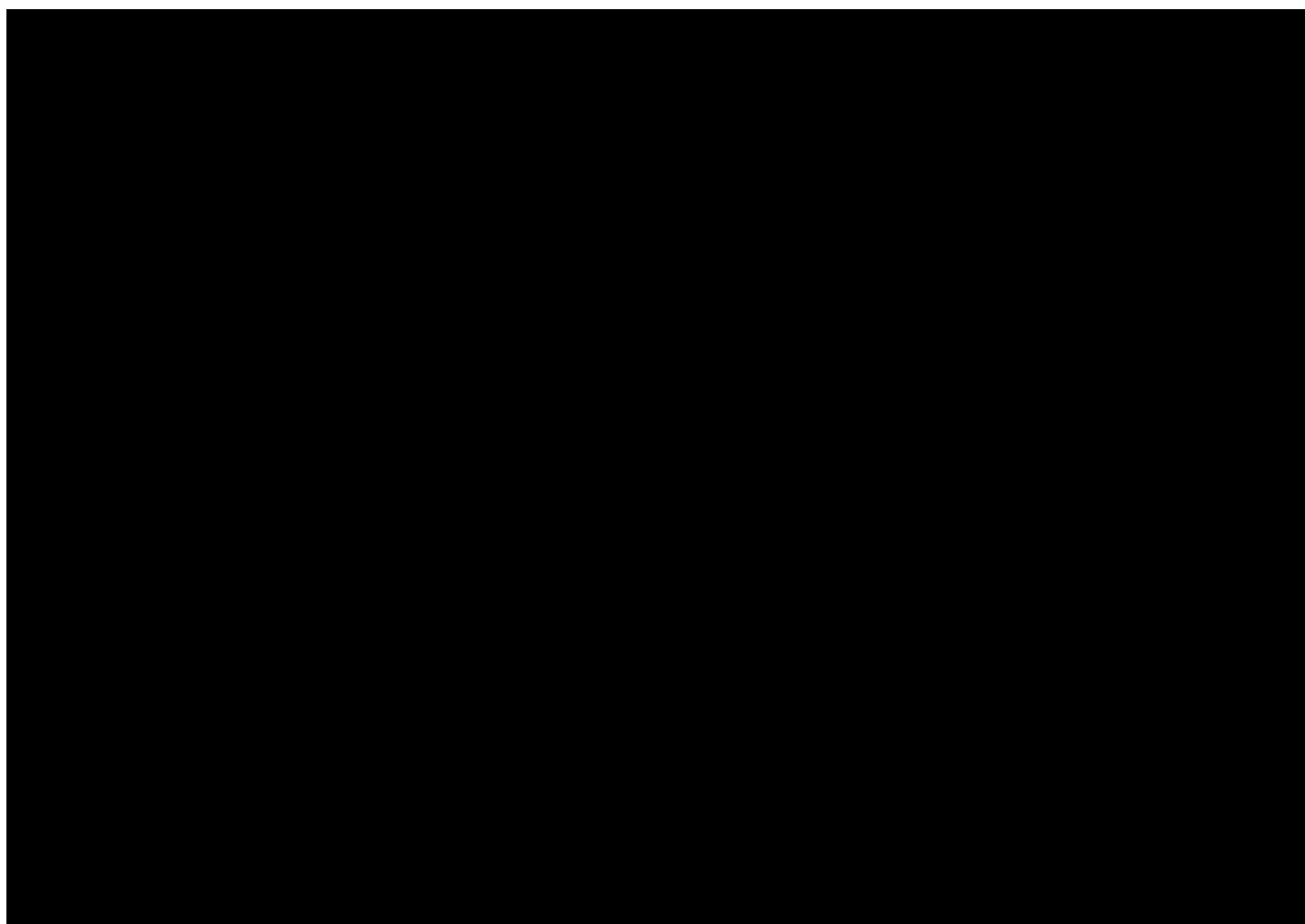
In May 2016, the U.S. government released preliminary findings for a \$25 million rat study linking cell phone radiation to cancer. See [NTP Study: Cell Phones and Cancer](#).

THE IMPLICATIONS FOR YOU AND ME

What does this say about schools, homes or offices located in a cell tower vicinity?

I recently measured the radiofrequency fields near a cell tower 5 miles from our home. The tower hovers over an Ace Hardware store and equipment rental company. Several housing developments are nearby.

I recorded the following video over a period of four minutes. I watched for unusual spikes.



The level went as high as 1827 mw/m2. The [Institute for Building Biology](#) recommendations for

sleeping areas suggests that anything above 1.0 mw/m2 is of “extreme concern”.

Our home has an average RF level of .0005 mw/m2. (Our RF levels went down after we transitioned away from Wi-Fi. See [From Wireless to Wired – Our Family’s Journey.](#))

ACTION STEPS

1. Locate nearby cell towers

Check the website [Antenna Search](#). Type in your address to see results for existing towers, pending cell towers, and antennas.

2. Monitor your health

If you are in proximity to a cell tower, take note of any health changes. Are you experiencing frequent headaches, sleep disturbance or fatigue? (Fatigue is a huge symptom of RF exposure. Learn more about symptoms in the article [Landmark Cell Tower Study.](#))

3. Measure your environment

The best way to see if a nearby cell tower is impacting you is to measure the RF in your environment. Distance is not necessarily the dictating factor. Issues include weather, humidity, obstructions (mountains are excellent obstacles), the number of antennas, beam pattern, cell traffic, and more.

RF meters are readily available online. I have the Cornet meter as seen in the video above. It sells for \$139 and measures magnetic fields as well as radio frequencies. (Purchase the meter at [Just So Natural Products.](#)) You’ll find a wide selection of RF meters at the website [Less EMF.](#)

4. Minimize exposure in the sleeping area

Our bodies are far more sensitive to all forms of electromagnetic radiation during sleep. The first step is to reduce the exposures we can control. Turn off your router at night, remove cordless DECT phones and keep your cell phone far away from your head. (For more suggestions see [Sleep, Melatonin and Electronic Devices.](#))

Shielding is an option when RF levels remain high after taking the above actions. Grounding paint and shielding fabrics are available at [LessEMF.org.](#)

- [Smart meter shield options](#)
- [Fabric shield options](#)
- [Paint shield options](#)

(Be sure to power off/eliminate all wireless devices in the room you are shielding to avoid aggravating the situation. Shielding is a complex issue and may require the help of an experienced electrician.)

Perhaps the best course of action is to ask questions about the alleged safety of cell towers and cell phones. The wireless industry has everything to gain from uneducated and overly trusting consumers. Let's not compromise our health, or the health of future generations, with an unwillingness to challenge the status quo.

FURTHER READING:

[Biological Effects from Exposure to Electromagnetic Radiation Emitted by Cell Tower Base Stations and Other Antenna Arrays](#), by B. Blake Levitt and Henry Lai

[Electromagnetic Radiation Safety – Cell Tower Health Effects](#) This is an informative website offered by Joel M. Moskowitz, Ph.D., a leading activist in this field.

[International EMF Scientist Appeal](#) More than 200 scientists from 39 countries are calling on the World Health Organization and the United Nations to adopt more protective exposure guidelines in the face of increasing evidence of risk.

FILED UNDER: ELECTROMAGNETIC RADIATION, UNCATEGORIZED, UNSEEN REALITY

TAGGED WITH: CANCER, CELL, CELL TOWERS, ELECTROMAGNETIC, ELECTROMAGNETIC RADIATION, FCC, HEALTH, MOBILE PHONES, RADIATION, RADIO, RADIO FREQUENCIES, TELECOMMUNICATIONS, TELECOMMUNICATIONS ACT OF 1996

[« Sour Cream and Onion Veggie Chips](#)

[Pumpkin Pie Spice Blend »](#)

COMMENTS



Emily @ Recipes to Nourish says
September 22, 2015 at 10:53 am

I have seen those “trees” but none near us that I know of. We do have a Smart Meter right outside our bedroom wall though, and we sleep against that wall. We rent, so there’s not a whole lot we can do about it. I didn’t know there were Smart Meter shield options though. Thanks for sharing this Andrea.

REPLY



Andrea Fabry says
September 22, 2015 at 1:21 pm

Yes, some of the shielding options are quite affordable and simple, Emily. I understand the rental issue!!

REPLY



A. B. says
March 5, 2018 at 3:07 pm

You can buy shielding fabric or shielding paint to put between you and the smeter. Be careful that you won't be doubling your exposure to another device from the opposite direction, though.

REPLY



Dr. Sharol Tilgner says
October 10, 2018 at 6:40 pm

Hello Emily, They are putting smart meters in my neighborhood and I simply paid a fee to keep one from being put in. If they already had done it, I could pay a fee to remove it. They also will charge a monthly fee to have to physically read the "safe" meter (don't call them dumb meters, call them safe meters please). I am not happy with the extra fees but my health is worth it. Otherwise I would pay for treating myself for cancer later.

REPLY



Bella says
November 23, 2018 at 3:51 pm

Unfortunately, very few states allow an "opt out" even if you are willing to pay extra or claim a

medical issue. We are in PA and have been fighting acceptance of these meters through the Inpower Movement. So far, little to no success; some folks have had their power turned off if they refused to allow installation of the meter on their home. I have spent \$\$\$\$ to make my home safer and it has helped a little. Biggest thing: turn your wifi off and hardwire your computer. Please know that you must go through several steps to get to the wifi on/off within your computer – it's a pain. Also, stop using cell phones (put in airplane mode and turn off) except in an emergency and never sleep in a room that has a meter on the wall (inside or out.)

REPLY



linda spiker says

September 22, 2015 at 6:57 pm

Thanks for the info. I had no idea!

REPLY



Jessica says

September 23, 2015 at 6:05 am

Whoa. I had no clue they 'hid' them. Totally scary.

REPLY



Megan Stevens says

September 23, 2015 at 6:15 pm

Wonderful research and information, Andrea; thanks. I pinned this. We are looking for land and will keep your warning as words of wisdom as we choose our spot! I'm thankful, too, for fabric shields that can canopy one's bed, when all else fails!

REPLY



Andrea Fabry says
September 23, 2015 at 9:04 pm

Thanks Megan. A land hunt sounds exciting!!!

REPLY



Delia D. Castillo says
November 25, 2017 at 1:43 pm

I have noticed that these cell towers are being placed even out in the country living. I went out like 40 miles out in the Country farm living and I was surprised to see some installed directly over farms and in small towns. Literly there is no where to move to. I have a cell tower right across the street and it sure is giving me frequent Heart Palpitations, Dizzy Spells, Memory lapses, Depression, Anxieties, Tiredness.

REPLY



Elaina Newton says
September 25, 2015 at 8:16 am

Wow. I had no idea they hid them either. Why is that even necessary? Unfortunately we have one pretty close to our apartment. Reading your post just reminded me of that. I am so guilty of keeping my cellphone on my nightstand while I sleep, although I put it in airplane mode last night. Not sure if that helps. I definitely need to take measures to purify my surroundings from all the electronics!

REPLY

Andrea Fabry says



September 25, 2015 at 4:18 pm

Elaina, airplane mode makes a big difference. You want to turn off the Bluetooth as well. Every little bit makes a difference.

REPLY



Jason says

November 2, 2016 at 2:17 pm

They hide them because they are ugly. Everything is not some sort of conspiracy. Also, the intro to this article highlights the lack of attention to detail and the fact that the article is written from a biased non-professional

In fact, the Federal Communications Commission, our government's regulating agency, has made sure health concerns aren't addressed when cell tower applications are considered. According to the Telecommunications Act of 1996,

"No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions."

This is a provision written into the act which is intended to "pre-empt" any state or local government from legislating in regard to this sort of subject matter. Given the interstate commerce clause, and interpretive case law, communications is a subject solely under the control of the Federal government. If Congress does not insert this sort of language, we will have some podunk little town trying to pass a zoning ordinance to keep out a cell phone tower. Can't do that, any more than a small municipal government can ban fracking. That is up to the state government.

I will qualify my remarks above by pointing out I am a left wing, tree hugging liberal; however, I do not see a governmental conspiracy behind everything related to business development and the government.

REPLY



Delia D. Castillo says

November 25, 2017 at 1:48 pm

So we are doomed to suffer the health consequences because of Cell Towers in our backyards????

REPLY



Andrea Fabry says
November 27, 2017 at 9:55 am

Building Biology focuses on the sleep area, so there are ways to shield your sleeping area. More in this post:<http://it-takes-time.com/2015/07/31/sleep-and-technology/>

REPLY



Earl says
March 25, 2016 at 2:43 pm

Cannot regulate “on the basis of the environmental effects”

But how about effects on people? Isn't that different than “environmental”?

REPLY



Brandon croy says
December 11, 2016 at 11:15 am

I've worked on cell towers for 9 yrs now and what's crazy is I have had to work in dangerous conditions and have been on live towers for more than 24 hours at a time ...I've been physically drained and mentally unfit to safely work but I had to in order to keep my job but If there is a osprey , eagle, owl or other protected or endangered species of bird living on the tower I'm not allowed to climb it...don't you dare disrupt their life , nest or safety but screw the climber ...????????????????? But it is what it is

REPLY



Andrea Fabry says
December 11, 2016 at 11:39 am

So true, Brandon that sometimes our concern for animals outweighs our care for humans. Have you noticed adverse health effects from your job? I'd be interested to hear.

REPLY



Noname says
May 20, 2016 at 6:27 am

I the two blocks from one disguised as a tree. 5 Neighbors in 5 months have died recently. The car's been up for approximately five years now I have only been living here for 2 years. Two young children live at the base in Oakley California. I'm very worried about what the future holds for this planet and about how the government is encouraging all of this. Very sad.

REPLY



Andrea Fabry says
May 20, 2016 at 7:09 am

Yes, I agree. I too am concerned about our future. That is startling about the deaths in the neighborhood.

REPLY



no name says
July 24, 2016 at 3:54 pm

Well, now there is 6 or 7 if you count the neighbor who passed late last year. So sad. I cant afford to move.

REPLY



Andrea Fabry says
July 24, 2016 at 4:01 pm

You might consider some type of shielding for your sleeping area.

REPLY



Tae says
June 18, 2017 at 5:03 am

Found 1 less than a 1/4 mile from home
In a public storage facility lot. Its surrounded by its own concrete enclosure
I zoomed in on it. Says Radio Frequency clear chioce powered by strikesorb
Making videos for youtube on it now
Thanks for this info
I will mention it in my vid
Im also going to check on my neighbors whos houses are on the block directly across from the tower.

REPLY



Thomas Giggey says
June 22, 2017 at 6:13 pm

I have an old unused AT&T tower which just started to get converted to a Cell tower on the abutting property. Tower is less than 250' from my home. Where do I go to get base-line radiation level readings

taken before any equipment is installed? This is in Maine.

REPLY



Andrea Fabry says

June 23, 2017 at 10:28 am

The Cornet Meter or Acoustimeter would be good. I would contact <http://www.lessemf.com> and ask them for their recommendation. They readily answer these types of questions.

<https://www.lessemf.com/>

REPLY



Richmond Ghana says

July 3, 2017 at 12:04 pm

This is very true.

I am a twenty six year old young man with health complications including depression and stomach problems for no apparent reason.

I've for three occasions try to commit suicide due to the pains and heat in the body which have not subsided for the past five years.

In fact I am still in health crisis which has forced me to defer my program at the university.

These towers are more than demonic.

REPLY



Andrea Fabry says

July 3, 2017 at 4:40 pm

I'm so sorry to hear this, Richmond. I appreciate you sharing your story.

REPLY



Paul says

October 10, 2017 at 9:16 pm

I just had to make a drive down on the I 95 from the Washington DC area down to Columbia South Carolina for work and no exaggeration, I must've seen at least 30 of these ridiculous cell towers along the way, and now I'm in my hotel room and I look out the window and What do you know, a cell tower is right outside my window! We can't get away from these things!

REPLY



Andrea Fabry says

October 13, 2017 at 7:14 am

Yes, they surround us don't they? Thanks for chiming in, Paul.

REPLY



Paul says

October 17, 2017 at 2:45 pm

And now word is that cell companies are going to start deploying 5G towers with the goal of getting the whole country covered with even faster data speeds, stronger building penetration, and coverage of all rural areas.... We don't need this, honestly it's overkill! But as long as people are buying phones and paying their phone bills making these phone companies rich, they will not Stop. What can we do to protect ourselves from this radiation, I am still trying to find out how.

REPLY



David Wilson says

October 18, 2017 at 4:20 am

Our entire city Cody Wy has been destroyed by dozens of towers all around the residents. 100s complaining about headaches, ear pain and pressure, ear ringing, sleep deprivation, neck pains head problems like migraine and cluster headaches Many describe a burning sensation in brain, ears feel like a middle ear infection and docs are clueless and prescribe opioids for pain and antibiotics for ears. Still many others and I mean a lot as young as in their twenties walking around with hearing aids to try and stop the ear-brain ringing caused from these towers.

This has become not only for residents but as a high traffic tourist town to Yellowstone park very unsafe. MS, Parkinson's and cluster migraine headache suffers as well as excess amounts of cancer are many times higher per population than other towns in the USA.

Many towers have been placed on private land to bypass certified FCC standards, OSHA regulations and proper other numerous safety requirements.

I would strongly encourage the folks to stay clear. In fact on many occasions in Yellowstone Park OSHA and FCC have been involved from levels more than 9 times higher the government regulations which have resulted in permanent hearing loss, damage, MS, Parkinson and many cardio vascular issues as well

In fact do to big money this fight has been going on over a decade plus and is all public records.

REPLY



Matias Gotzmann says

October 22, 2017 at 6:42 pm

I wonder if you are located in DC area or nearby states – as I would love to connect!

Here is my humble comment on the topic:

I happen work with magnetic fields in my line of business – doing mitigation and prevention. The issue is complicated – mainly by the generally acknowledged status quo that all low-voltage devices are incapable of producing harmful magnetic radiation. NOTHING FURTHER FROM THE TRUTH. Truth here is obscured by years (decades) of few factors in existence: (1) business/economy development push (2) lack of good studies and research (exception Germany – look up Commission 12, government body there but also a very credible Building Biology & Ecology Institute in U.S. – which brought much of the German research) (3) perception problem of the public where we tend to believe the authorities sometimes a bit too much and when something gets revoked as unsafe – that would a be bit too late for our health...

Few rhetoric questions: why every Swiss citizen received an extensive government booklet/publication

regarding electro-smog and how to protect yourself? why hundreds of schools in France banned any wifi signal in their schools and saw increase in learning results and overall health and kids' behavior problems decreased? Why every kinesiology test performed on EMF active device shows it is not safe for us? These questions multiply into thousands now – when the public awareness grows.

Even if we admit there is a legitimate concern which calls for verification we should apply principle of prudent avoidance (actually our federal government's official position since about a decade).

Will be happy to weigh in more or answer more questions. Also am doing home or office EMF sweeps to show how much EMF exposure is there and can advice what to do with it.

REPLY



Andrea Fabry says
October 23, 2017 at 7:31 am

I live in Arizona, not the DC area. I sure appreciate your feedback!

REPLY



Lianna says
November 6, 2017 at 10:44 pm

Andrea, it would be interesting to know which arguments are successful against cell tower implementation in neighborhoods. Do you have any information on this topic?

REPLY



Andrea Fabry says
November 8, 2017 at 9:30 am

I don't have experience directly with this, but this group successfully blocked a cell tower in LA.
<https://www.youtube.com/watch?v=lasMS2SuAeI>

REPLY



Amber says

December 28, 2017 at 7:33 pm

I have been having headaches and a lot more of the symptoms described above . I wanted to see you look at the Internet to see if there was information about it and I found this . I live in a seven story building and I live on the fifth floor and on the roof is packed full have cell towers and other things. my headaches are getting worse and worse . I am relieved to know that this may be the cause instead of not knowing at all.

REPLY



Andrea Fabry says

December 29, 2017 at 8:29 am

Good job making this connection, Amber! You're right – better to know than not know.

REPLY



John Bodkin says

January 1, 2018 at 10:33 am

Im pretty surprised by some of the claims made here in this article.

My name is John, i was a tower climber/ tower crew foreman for 11 years with a specialty in cellular diagnostics. (Look me up on FB" JohnnyBoston"

Ive built cell sites, tv and radio broadcasts, and communications towers in over 35 states across an 11 year span. from the canadian border in maine and VT to Marathon FL half way to Key West, from Northern Michigan to Dallas Texas, Oklahoma, up and down the Mississippi river. If youve been in midtown manhattan, Foxwoods, Boston, Anywhere on 91 or 84 in CT youre using a site i built.

Im more than familiar with Non Ionizing Radiation, and EME.

I find the study posted above hard to believe as they reference "structures" within 10 meters of a "base station". I have never in all my years of experience see any residence within 100 Meters of a RAD

CENTER. Elevation alone holds most transmitter at least 30 meters off the ground at a minimum, and a perimeter fence around any cell tower is going to give you at least

Although i largely agree with the effects of EME and Non Ionizing radiation, ive been up 1200 feet in the sky, with an ambient temperature of 1 degree at 2 am with 15-20 mph winds putting the temp in the negative, sweating from Non Ionizing radiation. Disoriented, fatigued, this happens routinely when trouble shooting one site that is within 15' of another.

Good work spreading knowledge on the topic, more people need to be aware, and skeptical. I always told my crew of climbers that 70 years ago people said asbestos was harmless and then thousands died of mesothelioma, silicosis, its important to note that since the inception of cell service, radios have been moved up top from base stations and average between 80-120 watts a piece, per technology, per sector.

The biggest sites to worry about are those (and ive built more than i can remember) atop of schools, churches, and apartment buildings. I had a few Verizon sites in which the RF engineer had a downtilt request on antennas that literally had RF blasting down into the roof of the building right into a few apartments. people on their couch would be maybe 20 feet from an antenna face.

Cant be healthy.

REPLY



Andrea Fabry says
January 4, 2018 at 7:33 am

Thank you so much for taking the time to comment, John. I so agree with the asbestos comparison!

REPLY



John says
February 19, 2018 at 12:27 pm

We live in the country outside of Little Rock, AR. About 25 years ago the federal government purchased an acre of land next to us and built a very large microwave tower. Not a cell tower. This thing has 2 coned disc approximately 20ft in diameter. Then a few years later they added a smaller tower to the site. That same year a cell tower the same size was built on the property on the other side of the first. We

have always been extremely healthy and active family. We raised 5 son's here. But the last 10 year's thing's have changed. One of our sons came down with 3 different types of cancer which spread throughout his body. All of us have struggled with chronic depression. I myself now have extensive memory loss. Headaches are daily for all. Chronic fatigue and body pain is shared by all. The last few years we have all been experiencing tremors and shaking. The nieghbor on other side of these towers has become nearly bedridden with many of the same symptoms. His house is within 200 feet of the cell tower

Our house is approximately 500feet of the microwave tower. Have killed at least 1 to 2 deer each year for the last 5 years that were uneatable due to being covered in cancerous growths. I think these towers may be killing us.

REPLY



Andrea Fabry says
February 19, 2018 at 2:31 pm

I'm so sorry to hear all of this, John, but sure appreciate you sharing your story. You are wise to make this association. Thank you for helping raise awareness by sharing your story.

REPLY



No Name says
April 23, 2018 at 6:35 pm

I think I may be experiencing these adverse effects from living near a cell tower. If one were to remove themselves from living near a cell tower for a period of time, should they see a difference in their symptoms? How long would one need to be away from one before seeing a different? How would one measure the change?

REPLY



Andrea Fabry says
April 23, 2018 at 7:05 pm

I would think quite soon after leaving. I'm not sure how to measure it, though!

REPLY



George says

May 2, 2018 at 9:46 am

Would an iodine supplement be helpful?

REPLY



Andrea Fabry says

May 2, 2018 at 4:28 pm

Actually, there are varied opinions on this. These foods can be helpful: <http://it-takes-time.com/2015/09/04/anti-radiation-foods/>

REPLY



Jordan says

July 2, 2018 at 4:12 pm

My neighbor has least his land to the cell phone company Selco acting as Verizon and I am unaware if there is anything I can do if anything. I have been working for several years clearing this property and building up the structure to have a home and now I will never be able to have a family out here on this Hillside that I paid \$21,000 for a half acre.

REPLY



AMBER LEWIS says

January 9, 2019 at 12:38 pm

I have a cell tower right outside my home about 150 feet, they constructed it after we built our home, but not on my property so I was told it had nothing to do with me. I have 2 teenagers with very low ferritin levels, sleep issues, and headaches. My husband has sleep issues and irritability and I suffer from sleep issues and depression. I have a 6 month old baby girl and a 6 year old son also. They are converting the tower to 5g as I type and I'm helpless as to what to do. I've contacted attorneys, and state and local officials and keep hitting brick walls. I'm gravely concerned for all of our health, especially my younger children. Do you have any suggestions for me? Has anything helped you?

REPLY



Andrea Fabry says

January 9, 2019 at 6:38 pm

There are options: Shielding is one along with creating sleep sanctuaries. This post should help:

<https://it-takes-time.com/2015/07/31/sleep-and-technology/>

Also, with symptoms among family members, it's also good to rule out the presence of toxic mold. If there is a history of water leaks or evidence of water damage this is important to explore as well.

REPLY



Dr. Sharol Tilgner says

October 10, 2018 at 6:44 pm

Thank you Andrea. You have put a lot of time into this and I appreciate it. Most of society is ignoring the antennas, microwave towers, radio towers that are being set up everywhere. I am so thankful to the people who have complained about smart meters and allowed for people like me to refuse them even if we have to pay extra fees to do so. The more people who complain about the effects of EMFs the better so we will educate people. I work with people who have a genetic sensitivity to moldy houses and they are all made worse by EMFs. Keep up the good work!

REPLY



Andrea Fabry says

October 13, 2018 at 10:03 am

Glad to hear about the work you're doing, Sharol.

REPLY

TRACKBACKS

Why Living Close to GSM Towers Could Be Hazardous for Your Health? – Slow Digital

says:

January 15, 2018 at 4:02 am

[...] • The Hidden Health Effects of Cell Towers [...]

[Reply](#)

LEAVE A REPLY

Your email address will not be published. Required fields are marked *

Comment

Name *

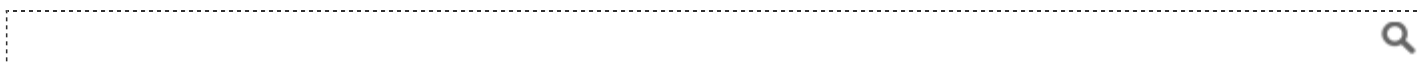
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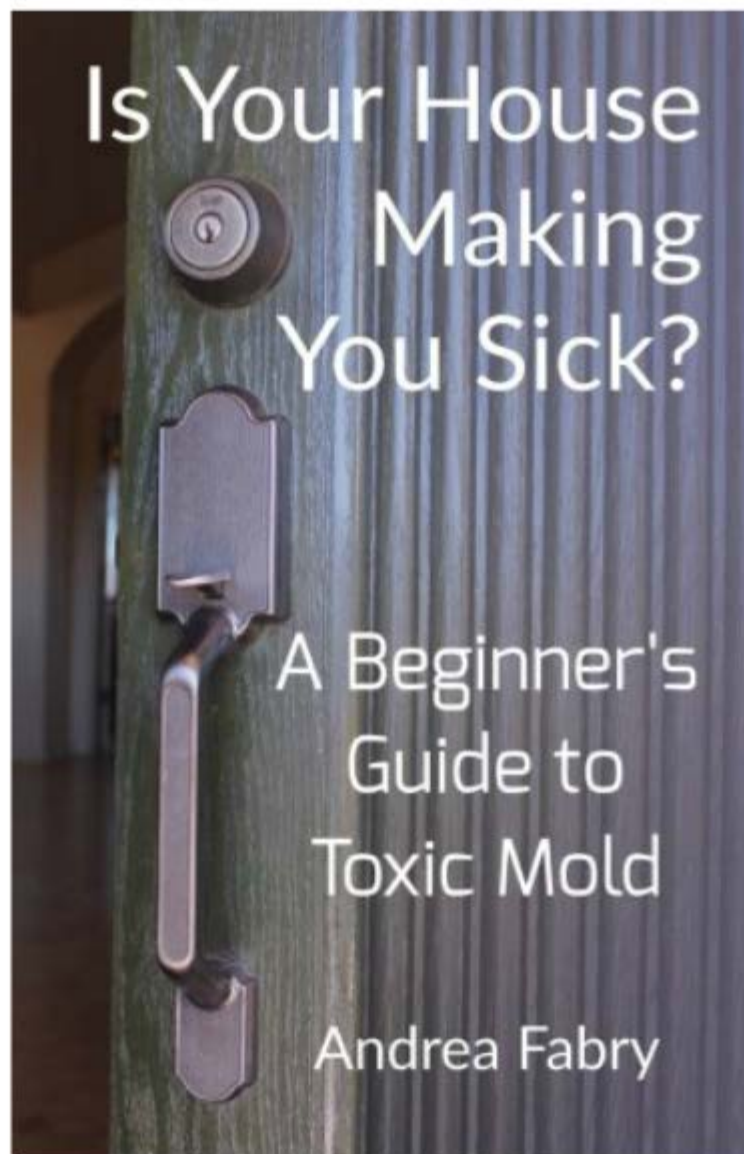
MEET ANDREA

I am a certified Building Biology Advocate, a former journalist, mother of nine, and avid CrossFitter who likes to think outside the box. After our family's health crisis in 2008, I learned to ask questions about what's in our food, our water, and our air. I hope to empower you as you seek to live safely in a complex world. Thankfully, small steps lead to big changes. Let's travel this road together, one step at a time.

FOLLOW



NOW AVAILABLE ON AMAZON



10 THINGS I'VE LEARNED (THE HARD WAY)

1. The answer may be right in front of you.
2. Time is often the best medicine.
3. Speak kindly to yourself.
4. The air we breathe matters.
5. It's better to know than not know.
6. Relinquishment is a balm for the soul.
7. Symptoms will instruct if we listen.
8. Sometimes you're the expert.
9. Allow hindsight to move you forward.
10. The next step is enough.

THE CONNECTING PLACE LATEST EPISODE

The player is loading ...



POPULAR POSTS

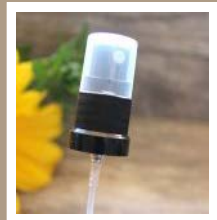


10 COUNTRIES ACT AGAINST GLYPHOSATE



NATURAL LIVING

Are you learning to cook with real food? Clean without chemicals? Use safer products on your skin?
Natural living is fun and rewarding. Come join the fun!



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Carmel Verizon Cell Tower - Please enter objection into the record and put in the planning commission packet

1 message

Cheryl Beller <cheriebeller@gmail.com>

Tue, Apr 30, 2019 at 1:01 PM

To: mwiener@ci.carmel.ca.us, mwaffle@ci.carmel.ca.us, crerig@ci.carmel.ca.us

April 30, 2019 at 1 PM

To: City of Carmel Planning Commission

I am writing to object to the placement of a Verizon cell tower in a residential area of Carmel, and wish that my objection be entered into the record and put in the planning commission packet.

Not only is there much research about the harmful effects of being near towers, but they devalue property and neighborhoods. A survey by the National Institute for Science, Law & Public Policy found that 94 percent of homebuyers are "less interested and would pay less" for a property located near a cell tower or antenna. Many cities have reported that the towers buzz loudly. Despite their name, they are not small – they are huge and ugly. And we don't have any longitudinal data on the effects of 5G.

While I am not a resident of Carmel, I would object to any such tower being placed in any residential area where the health safety and property values of that area and its homeowners would be affected. I do have a business located in downtown Carmel, so the health, safety, and enjoyment of nearby residents and visitors is important to me, and to all of us, I would presume.

Thank you,

Cheryl Beller (831) 747-4471

P.O. Box 1012
Carmel, CA 93921
April 26, 2019

To Whom It May Concern:

I just learned about the proposed installation of a G5 cell sender/receiver in on a pole in front of a house I own on Mission St. between 12th and 13th and I strongly object to this location due to concerns about the health and welfare of my tenants and the surrounding neighbors.

There are unanswered questions in regards to the hazards associated with this technology and until adequately answered, people's fears are valid.

The potential risks not only lower the neighborhood's property values, installing such pieces of technology so close to occupied houses is irresponsible.

Sincerely,

A handwritten signature in cursive script that reads "Carol LeNeve". The signature is written in black ink and extends to the right with a long, thin horizontal stroke.

Carol LeNeve



**Carmel-
by-the-Sea**

Marnie R. Waffle <mwaffle@ci.carmel.ca.us>

Cell phone towers

1 message

Caroline Stepovich <wiley7@gmail.com>
To: mwaffle@ci.carmel.ca.us

Thu, May 2, 2019 at 8:12 AM

<https://maloney.house.gov/issues/local-issues/cell-phone-towers-0>


I sincerely hope you will forward all these articles to the city planning. I will be bringing them with me on Wednesday.

Thank you
Caroline Stepovich

Carolyn B. Maloney

[About](#) [Contact Carolyn](#) [Media Center](#) [Issues](#) [My Work in Congress](#)

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(Cell Phone Towers) in residential areas has been growing in recent years, as more information becomes available about the health and environmental impact of exposure to such towers. Current law permits companies to erect Cell Phone Towers without notice and without prior approval of the community or any governmental entity. In fact, New York State law expressly prohibits localities from using zoning laws to regulate the placement of such towers. Thus, local officials have no oversight over the placement of the Cell Phone Towers and no authority to prevent them from being erected even in areas where the community strongly objects.

With the accelerating proliferation of Cell Phone Towers in the 12th Congressional District, I have heard from a number of community groups and residents who are deeply concerned about the lack of oversight over the placement of these stations. While the law prevents localities from using zoning rules to ban Cell Phone Towers, the FCC does regulate certain design elements, including the maximum amount of radiation the towers can emit. In response to complaints, I have requested that the FCC inspect Cell Phone Towers in several instances in which I believed the agency's rules may be being violated.

For example, when Astoria residents complained about Cell Phone Towers that were located on a roof adjacent to an area they commonly used for recreational purposes, and that birds were being killed by the radiation from the towers, I asked FCC inspectors to investigate. The residents were concerned that the radiation levels were too high, that the too many towers were clustered in a small area and that the area was too easily accessible by the public. The day before the inspectors were due to arrive, the company acknowledged the problems and removed the towers.

Most recently, I protested the placement of Cell Phone Towers directly facing an Astoria elementary school. I am especially concerned about the potentially harmful effects on children of microwave transmissions, particularly since cellular phone technology is relatively new and its long term health impacts are not yet fully known.

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EMF Health Effects

Is Cell Tower Radiation Dangerous?

Cell Phone Tower Exposure Overview

You are exposed to 100 million times more electromagnetic radiation than your grandparents were, and part of the reason is radiation from cell phone towers and microwave antennas.

Human population centers are flooded with massive amounts of powerful wireless microwave radiation. Cell phone towers emit high-frequency radio waves, or microwaves, that can travel as far as 45 miles over level terrain. The closer you are, the greater the danger.

Health Effects

The microwaves from cell phone towers can interfere with your body's own EMFs, causing a variety of potential health problems, including:

Know Your EMF Health Risks

- [Cell and Smart Phones](#)
- [Electrostress from Computers](#)
- [EMFs in the Home](#)
- [Electrostress and Travel](#)
- [Wi-Fi Router Dangers](#)
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- [Radiation from the Earth](#)
- [EMFs from Underground Pipes](#)
- [Smart Meters](#)

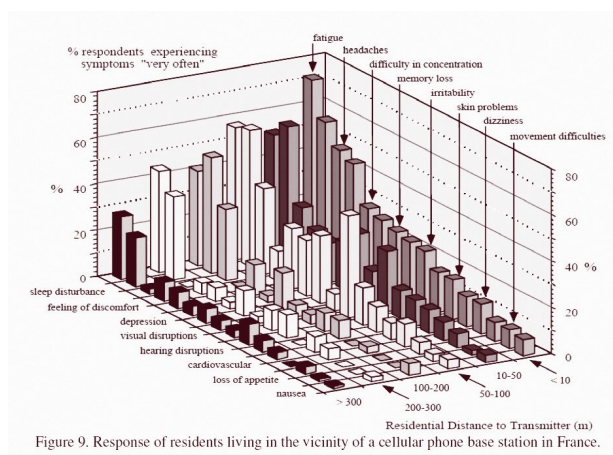
Choose Products to Protect Yourself

[SafeSpace Solutions](#)



Headaches

- Memory loss
- Cardiovascular stress
- Low sperm count
- Birth defects
- Cancer



A Closer Look at Cell Tower Exposure

Cell towers (or cell sites) that hold antennas and other communications equipment flood the area for miles around with powerful high frequency radio waves (known as microwaves) to support the use of cellphones as well as Wi-Fi, WiMax, Wireless LANs, 802.11 networks, Bluetooth supported devices and more.

Cell tower microwaves might travel for as few as two miles in hilly areas, and up to 45 miles where there are fewer obstructions; and of course, they easily penetrate brick and metal

Radio masts - Smaller versions of cell towers, often seen on rooftops and billboards, typically installed 800-1300 feet apart.

Mobile towers - Sometimes installed on the tops of buildings. Mobile towers are especially dangerous because they emit microwaves at a frequency of 1900 MHz. Recent studies have shown that the intense radioactivity from mobile phone towers adversely impacts every biological organism within one square

kilometer.

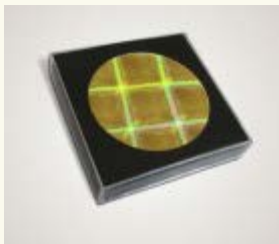
Cellphone tower microwaves have a significantly higher frequency than even radio waves. The higher the frequency, the more powerful the wave—and the more powerful effect on biological organisms (recall that a mobile tower emit microwaves at 1900 MHz).

Protecting Yourself and Your Family

Cell phone towers and power lines are virtually everywhere. However, SafeSpace offers a range of effective, affordable products that can help you protect yourself and your loved ones against the dangers from hallmarks of the modern world. For more information, **click here**.



SafeSpace Solutions designed to counter the harmful effects from cell towers



GeoResonators

A great solution for clearing and protecting the earth energy around your home or office. The GeoResonators clear geopathic stress zones and transmute the negative impacts of ground current **Read more**

EMF Adapter

An all-in-one solution for clearing and protecting an entire home or office space from the harmful effects of EMF radiation. The EMF Adapter works through a



building's electrical circuitry [Read more](#)

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Why 5G Cell Towers Are More Dangerous

All cell towers emit Radio Frequency (RF) Radiation. This is what makes them dangerous. Plans to transition to the new 5G around the world is already underway. Soon every city will be retrofitted with this technology. Mini cell stations will be placed all throughout our neighborhoods and cities. They will be installed on the sides or tops of buildings and on street light poles.

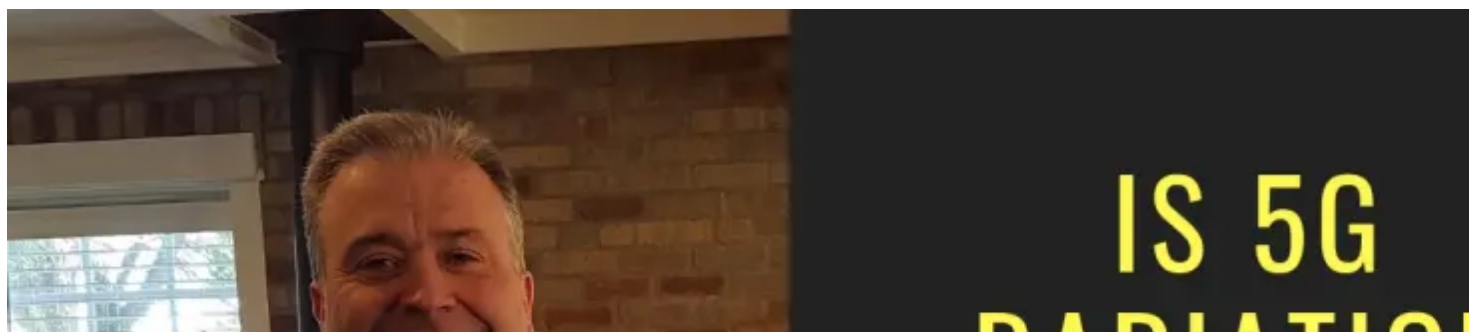
5G cell towers are more dangerous than other cell towers for two main reasons. First, compared to earlier versions, 5G is ultra high frequency and ultra high intensity. Second, since the shorter length millimeter waves (MMV) used in 5G do not travel as far (or through objects), with our current number of cell towers the cell signal will not be reliable. To compensate many more mini cell towers must be installed. It is estimated that they will need a mini cell tower every 2 to 8 houses. This will greatly increase our RF Radiation exposure.

1G, 2G, 3G and 4G use between 1 to 5 gigahertz frequency. 5G uses between 24 to 90 gigahertz frequency. Within the RF Radiation portion of the electromagnetic spectrum, the higher the frequency the more dangerous it is to living organisms.

With RF Radiation, how close the source is to our physical bodies, is more important than the power level (or wattage) of the radiation. RF Radiation dissipates with distance. In other words, a low powered exposure right next to someone, is more dangerous than a more powerful exposure a long ways away. Also the longer the exposure time is, the more dangerous it is. 5G will be the worst of both worlds. We will have more sources around us, and closer to us. And they will be more powerful and continuous emissions.

In the below video I explain in a bit more detail why 5G is more dangerous than previous technologies. I apologize for looking so beat in this video. I really should not have tried to do a video when I was so tired. This is a video I will be re-doing. However the information is very good and super important. It is a short video and very much worth watching.

Is 5G Radiation More Dangerous?





RF Radiation Dangers

There have been hundreds of peer reviewed scientific studies done on RF Radiation linking it to health problems such as cancer, DNA damage (especially in fetuses within the 1st 100 days after conception), and sterility in men. And even the World Health Organization classified RF Radiation as a possible “carcinogenic”, meaning “cancer causing”, in 2011. To research some of the actual peer reviewed scientific studies on both general RF Radiation, and 5G, see the “[Scientific Studies](https://www.radiationhealthrisks.com/scientific-studies/) (<https://www.radiationhealthrisks.com/scientific-studies/>)” page of this website. We will also go over a few of these studies below in this article.

Mini 5G Cell Tower In Your Home

Many people do not realize that they already have a mini cell tower emitting high levels of RF Radiation in their homes and offices right now. Some even have a 5G mini cell tower. We call them WiFi routers. Just like a cell tower, a WiFi router emits at full power 24 hours a day 7 days a week, or as long as you have it turned on. It’s range includes your entire home and beyond. It’s radiation is the exact same RF Radiation that a cell tower emits, or that your microwave oven uses to cook your food.

For example, my WiFi router is a Netgear 5 GHz router that emits both at the 5 GHz and 2.4 GHz frequencies. A microwave oven uses 2.45 GHz frequency to cook food. The new 5G WiFi routers that are available now use the 60 GHz, 5 GHz and the 2.4 GHz frequencies. So having one of those routers is really like having a 5G mini cell tower inside of your home.



WiFi Router Guard

It is possible to protect yourself from the RF Radiation emitted by your WiFi router. In the picture to the left you can see something called a Wifi Router Guard

(<https://www.radiationhealthrisks.com/wifi-radiation-protection-items/>). By putting your WiFi router in one of these it will block

between 90% and 95% of the RF Radiation they emit. And the amazing part is you will still be able to use the WiFi. In my case our WiFi does not seem slow anywhere in our 3 bedroom home.

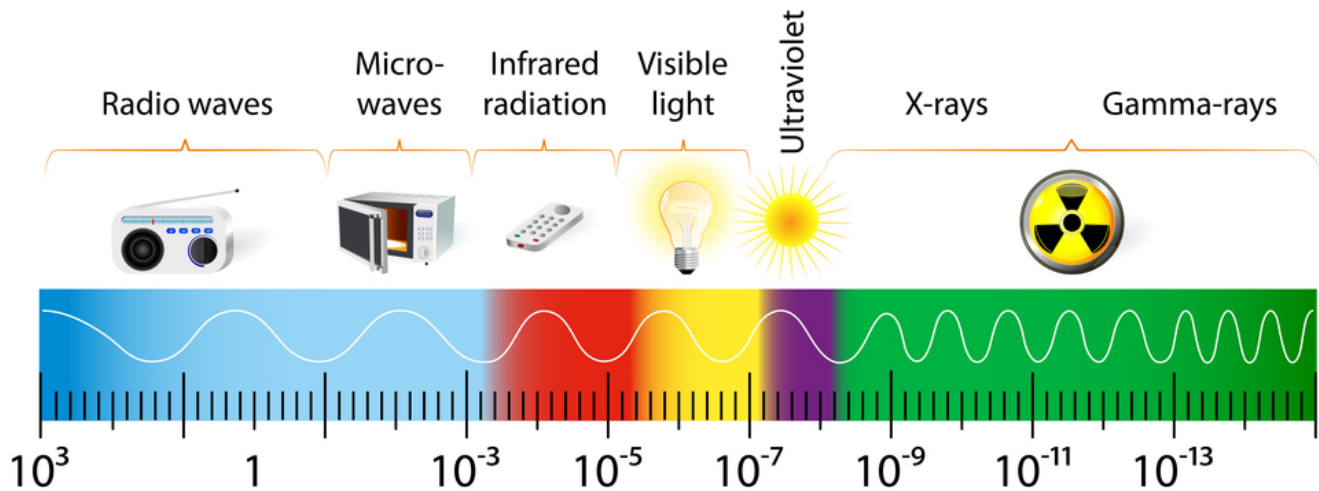
In the below video I measure the amount of RF Radiation emitted by my 5 GHz Netgear WiFi router. Then I place it in a Wifi Router Guard and test it again so you can see how much RF Radiation it blocks. It is a short video but definitely worth watching.

If you don't have the ability or resources to hard wire internet through your house, or if for some reason you must have WiFi, a WiFi Router Guard is a very effective solution. For more information on the WiFi Router Guard click this link **Wifi Router Guard** (<https://www.radiationhealthrisks.com/wifi-radiation-protection-items/>). Also for more information about other RF Radiation dangers inside your home, please see my article "[The 7 Worst Radiation Dangers in Your Home](https://www.radiationhealthrisks.com/)". (<https://www.radiationhealthrisks.com/>).

Electromagnetic Radiation

In the chart below you see what is called the "electromagnetic spectrum". The "Radio waves" and "Microwaves" part of the spectrum is what is referred to as RF Radiation. So microwaves are just a higher frequency radio wave. And remember that within the RF Radiation part of the electromagnetic spectrum, the higher the frequency the more dangerous the waves are to living organisms. (This is not the case in the infrared and visible light portions of the spectrum.)

THE ELECTROMAGNETIC SPECTRUM



RF Radiation Scientific Studies

In Germany, researchers studied 1000 residents who lived in close proximity to two cell phone towers for about 10 years. According to the study, during the last five years of the observations, researchers discovered neighbors living within 400 meters of the cell towers were diagnosed with cancer at a rate that was three times higher than those who lived much further away.

Another frightening study in 1994, well before 3G, 4G and 5G, links significant health problems with people living in a London apartment building with a cell phone mast on the roof. In this study, the cancer rate of those living on the top floor of the apartment building—the closet to the tower, had a cancer rate of 10 times the average in England.

If that isn't enough to convince you there is a significant link between cell phone towers and health problems consider a recent study in Italy. In March 2018, the researchers at the world-renowned Ramazzini Institute released the shocking results of a large-scale study of lab animals exposed to cell tower radiation over a lifetime.

“The Ramazzini study exposed 2448 Sprague-Dawley rats from prenatal life until their natural death to “environmental” cell tower radiation for 19 hours per day. RF exposures mimicked base station emissions like those from cell tower antennas, and exposure levels were far less than those used in the NTP studies of cell phone radiation.”- ehtrust.com

NTP refers to the National Toxicology Program study that recently linked cell phone radiation to heart cancer in male rats. The Ramazzini study is the first to complete a study of this scale, over a significant period of time. Together, the studies make a strong argument for more guidelines and standards to protect public health. Health experts from around the world are weighing in on the significance of the findings and urging the World Health Organization to act.

“This study raises concerns that simply living close to a cell tower will pose threats to human health. Governments need to take measures to reduce exposures from cell tower emissions. Cell towers should not be near schools, hospitals or people’s homes. Public health agencies need to educate the public on how to reduce exposure from all sources of wireless radiofrequency radiation- be it from cell towers or cell phones or Wi-Fi in schools,” said Dr. David Carpenter, former Dean of the School of Public Health and the University of Albany.

“This is particularly urgent because current plans to place small 5G cell towers about every 300 meters in every street across the country. These 5G “small cell’ antennas will result in continuous exposure to everyone living nearby and everyone walking down the street. The increased exposures will increase the risk of cancer and other diseases such as electro-hypersensitivity,” said Dr. Carpenter.

The risk is very real. As Dr. Carpenter indicated, public health is at risk with plans for more and more smaller towers to go up on every street corner around the world.

According to experts, doctors and researchers, radiation has the power to change our bodies on the cellular level. These changes, as supported in several studies, create a perfect environment for cancer and other ailments to take over inside our body.

Other studies link cell phone and cell tower radiation to memory loss, headaches, changes in vision and mood, sleep disorders and leukemia. The rollout of 5G and the infrastructure to support it will only increase our risk of suffering major health issues down the road.

Cell Tower Radiation Measured

In the below video I am standing next to an office building that just had a huge cell tower built right next to it. From the office building I measure how much RF Radiation the cell tower is raining down upon the office building. I just cannot believe they build these things so close to people.

See also “[Is 5G Safe or Dangerous? Here are the Facts](https://www.radiationhealthrisks.com/is-5g-safe-or-dangerous/) (https://www.radiationhealthrisks.com/is-5g-safe-or-dangerous/).”

5G: What Do The Studies Say?

As companies prepare to make 5G a reality, many doctors and scientists believe the technology will be a “massive public health experiment.”

According to Dr. Joel Moskowitz, a public health professor at the University of California, the increase in mini-cell towers across towns and cities is only part of the concern. Dr. Moskowitz says the lower frequency millimeter waves used in 5G could cause major skin, eye, and nervous system problems.

“The deployment of 5G, or fifth generation cellular technology, constitutes a massive experiment on the health of all species... Because MMWs are weaker than microwaves, they are predominantly absorbed by the skin, meaning their distribution is quite focused there. Since skin contains capillaries and nerve endings, MMW bio-effects may be transmitted through molecular mechanisms by the skin or through the nervous system,” said Dr. Moskowitz.

Dr. Moskowitz also believes that MMV can make some pathogens resistant to antibiotics.

Dr. Moskowitz is not alone in his concern about 5G. Dr. Yael Stein from Jerusalem’s Hebrew University recently wrote a letter to the Federal Communications Commission outlining his major concerns about 5G, MMV and how it could impact human skin.

Dr. Stein argues the human skin has the ability to absorb more than 90% of microwave radiation and will cause major problems from head to toe- especially for the vulnerable such as kids, elderly and pregnant women.

MMVs are also believed to cause physical pain. A recent article in Eluxe Magazine takes a deeper look at the issue. According to the article, MMVs could cause pain receptors to flare up in the human body, and cause great damage to our eyes, cell growth and compromise our immune system.

In fact, the U.S. Government currently uses MMV energy as a non-lethal weapon. This weapon is direct and more intense than the MMVs from a 5G network, however, it's similar and concerning. According to the U.S Department of Defense, the active denial system creates a focused MMV beam that is capable of penetrating the skin, which can create a burning or a stinging sensation.

Some experts even argue 5G will have a devastating impact on our environment as well. A 2010 linked aspen leaf damage to MMV exposure. Some researchers also found MMV's can cause cell damage in wheat plants, impact wildlife and affect our atmosphere.

Only time will tell how the 5G network will impact our health and the environment. We know existing cell towers are dangerous and with plans to build thousands, if not millions more- it could become very interesting. It's clear though, MMVs are not safe for the general public- especially considering we will be exposed everywhere we go, even at home.

Ways to Reduce Exposure to 5G

5G is expected to be ready to go by 2020 so you have plenty of time to prepare and make plans to reduce your exposure to MMVs and other cell towers. Because 5G towers will be everywhere it will be difficult to avoid all exposure, so you'll have to take care of your immune system and make healthy choices.

Boosting your immune system with natural fruits and vegetables is a great way to keep your cells healthy and keep diseases at bay. In addition to making healthy food choices, you can take several precautions around your home.

Some experts believe the best way to keep cell tower radiation from penetrating your home is to create a highly conductive enclosure around your home. So, what does this mean? It means first measuring the levels of radiation with HF35C meter. This meter will give you various levels throughout your home and determine what areas you need to focus on first. Right now, there are various window coverings, paints that will keep radiation from penetrating your home.

Many doctors suggest keeping your distance from the cell towers in question. This could be very hard to do given these 5G towers will be on every corner on every building. Unless you never leave the house, I don't see this as being a realistic expectation.

I'm hoping there will be an app or map listing all the cell phone towers in every neighborhood, in every city across the world. This would certainly make it easier to know where the new 5G towers are located and how to avoid them when necessary. This information would be helpful to those who are exceptionally vulnerable to cell tower radiation such as children, infants, elderly and pregnant women.

Reducing Radiation In Your Home

While you can't control where the cell towers go, you can control how and when you use your own cell phone. By limiting your time on your phone and using radiation blocking cases and shielding headsets, you can greatly reduce your exposure to cell phone radiation. Every little bit helps. Please see also our article entitled "[Why Are 5 GHz WiFi Routers More Dangerous?](https://www.radiationhealthrisks.com/why-5-ghz-wifi-routers-dangerous/) (<https://www.radiationhealthrisks.com/why-5-ghz-wifi-routers-dangerous/>)”

Also, if you have an office- make sure you turn off your Wi-Fi router when you're not using it. And keep your cell phone out of your room at night. Various studies link cell phone radiation to disruptive sleep patterns. When you don't sleep well, it can throw off your entire day. By leaving your cell phone out of your room at night, you'll never have to count sheep again.

Take a closer look at your meter outside your house. Many power companies are switching to smart meters. These meters take the guesswork out of how much energy you are using. Smart meters wirelessly transmit data constantly throughout the day, giving the power companies real-time information about your energy consumption. Smart meters take the place of meter readers. Smart meters, however, transmit harmful levels of radiation. If you can, get a smart meter guard to protect you and your family from harmful radiation. You can purchase a smart meter guard for your router and cell phone for under \$100.

By reducing your risk of radiation, you can improve your chances of staying healthy and living a long and joyful life.

If you have kids, pay attention to the Wi-Fi situation at school and in their classrooms. Some studies link ADD, ADHD, memory issues, and behavior problems with Wi-Fi routers and nearby cell towers. Cell phone towers are a big business for school districts. Many districts across the country are selling or renting land for cell phone towers. If this is happening in your neighborhood, speak up. It's only going to become more prevalent with the rollout of 5G.

Why Are Companies Pushing 5G?

5G is the wave of the future. This advanced bandwidth will allow you to download movies in a matter of seconds and is expected to support at least a 100 billion devices. That's a whole lot of devices one bandwidth. In general, 5G will be up to 100 times faster than 4G. That's fast!

5G stands for 5th generation cellular technology. This is the latest development in the cellular world. Major cell phone companies and other tech giants are making progress right now to be ready to launch 5G capable devices by 2020.

I won't get over technical but in general, 5G will make technology faster, smarter and create a more connected world. According to Tech Radar, 5G will have an average download speed of about 1GBps (1 gigabyte per second).

With faster connectivity, this network will be capable of supporting the Internet of Things, your personal devices and various networks without any delay. Plus, with 5G the connections will be more reliable as well. No more dropped calls or delays when trying to browse the internet.

“It's all about making better use of the radio spectrum and enabling far more devices to access the mobile internet at the same time”-BBC.

5G is being touted as the golden ticket to cellular connectivity. More speed, less waiting and more people and things connected than ever before. However, as I mentioned earlier, advances in technology will no doubt have an impact on our health- impacts we may not even realize are happening until it's too late.

How Will 5G Work?

5G is the super highway for speed, information, and connections. To create this incredible speed and reliability, 5G uses the millimeter wave. This millimeter wave operates between 30GHZ and 300 GHz. According to the BBC, “The higher-frequency bands have a lot of capacity but their shorter wavelengths mean their range is lower.” This means the 5G signal is easily blocked by buildings, cars, planes, plants and other objects.

Because the signal will face so many obstacles, an entire web of small-mini cell towers will need to go up in every city, on every block in every neighborhood around the world. No word yet on exactly how many towers or small masts will need to be installed to support this network. It could easily add up to billions of towers.

A recent article in the UK estimated at least 400,000 extra phone masts would be needed to bring rural Britain to be 5G compatible. That’s just the rural part of Britain. It’s estimated there could be thousands of extra small masts in every single city around the world.

According to experts, the 5G masts will be about four feet tall- not nearly the same height as needed with 4G and 3G networks. These towers will be around every corner and will make communicating with your house, car, and family a breeze. However, being that connected- with so many signals around may cause major health problems. I’ll address this later on in this article.

So, who decides where these towers will go? That’s a great question and one local government across the country and world are addressing right now. However, internet and cell phone providers have lobbyists working with state lawmakers to restrict how much say local government has as to where and when the 5G network cell towers will be placed. As I write this article, 13 states have laws on the books to limit local governments from having a say in the 5G process.

The Difference Between 3G, 4G, and 5G

To understand why 5G cell towers are more dangerous than other cell towers, we need to take a closer look at how each network operates. As I mentioned earlier, 5G is the 5th generation of cellular technology and needs shorter waves to function at a high speed. Shorter waves mean there's a greater need for more cell towers because these specific waves have lots of obstacles.

Let's start with 3G. 3G stands for the 3rd generation of cellular technology. This advancement in technology was unveiled in 2003. 3G operates using cellular technology, as in the signals are passed from tower to tower. Then onto the next cell phone tower and so on. This continues until you answer your phone, find your answer on Google and finish watching YouTube.

Cell phone companies strategically place the cell towers in various locations and different heights to give you the best signal possible. 3G was mostly used to make phone calls, texting, and limited internet use.

With 3G the signal can travel farther- however, there has to be another tower around to pick up the signal and you're moving. If there isn't another tower then you experience a temporary interruption in service. With 3G you need fewer towers than 5G to operate. Fewer towers mean less exposure to potentially harmful cell tower radiation.

3G is also referred to as mobile broadband. This term became a catchy way to sell phones and tablets in the mid-2000s. Mobile broadband basically means there are enough cell towers to keep your signal connected while you're moving around town or traveling around the world!

The data speeds for 3G are much slower than 4G and certainly much slower than 5G.

Let's take a closer look at 4G. 4G is what most of us are using today. It's the reason you can Facetime with your best friend in Europe or download an entire movie on your tablet. Some tech experts describe 4G as removing speed bumps in the cellular signal, "allowing traffic to move much faster."

4G uses cell towers, just like with 3G- however, the speed at which data and information can travel is much different. 4G uses more bandwidth than 3G, which means towers need to be more powerful. The more powerful the cell phone towers, the more potential for radiation to be emitted into our environment.

Even though 4G is more powerful than the 3G network- it's not nearly as powerful as 5G. 5G is the super horse, a new wave of technology designed to connect everything via the internet. It's a game changer. This big shift could mean big health consequences as well.

Future of 5G

The future is here and companies are building the infrastructure needed to create a full world-wide rollout of 5G by 2020. AT&T is leading the way in this major effort to make cities 5G compatible. In July, the tech giant announced plans to have the 5G infrastructure in place and ready to go in 12 cities by the end of this year. Verizon and T-Mobile are also planning limited rollouts of 5G in the next year or so.

There is still a lot of work to be done on the 5G front. In May, Verizon announced Los Angeles will be one of the first cities in America to make the move to 5G. This is not a small feat by any means. According to an article in Tech Crunch, Lowell McAdam, Chief Executive for Verizon, said the company purchased 36 million miles of fiber so they can support the hundreds of megahertz of bandwidth needed to deliver "the whole suite of 5G." McAdam said Verizon has added 1,000 extra cell sites in LA to make the 5G experience possible.

Verizon also has plans to bring Boston and other major cities into the 5G era as soon as possible. AT&T announced it's working on 5G capabilities in Atlanta, Dallas, and Waco, TX. Sprint says its bringing 5G to NYC, Phoenix and Kansas City.

Right now, AT&T is running 5G trials in Waco, TX, and Dallas. South Korea unveiled its 5G system during the Winter Olympics this year.

South Korea, Sweden, Turkey, Japan, and China are also working hard to create a seamless transition to 5G. Some industry insiders are calling the 5G networks a technological revolution. The information, data, and insights made possible by 5G will change how people interact with each other and how businesses operate. According to one article I recently read, 5G has the power to increase revenue across a variety of industries- to the tune of \$12 trillion dollars. Yes, trillion dollars.

“Unlike its predecessors though, 5G is a technological paradigm shift, akin to the shift from typewriter to computer. And it isn't just a network. 5G will become the underlying fabric of an entire ecosystem of fully connected intelligent sensors and devices, capable of overhauling economic and business policies, and further blurring geographical and cultural borders. It will be capable of delivering at every rung of the ecosystem's ladder and will provide seamless, continuous connectivity for business applications,” Technology Review.

“All industries will feel the effects of the shift to 5G. In particular, automotive, health care, and the Internet of Things (IoT) are expected to bring about dramatic transformations in our daily lives.”- Technology Review.

Most companies in the United States hope to have the 5G infrastructure in place by 2020. Each country has its own timeline on a 5G rollout.

Will I need a new Phone/Tablet?

Yes, you will most likely need to buy a new phone to take advantage of the speed and reliability promised by 5G. However, if you like your phone and don't want to spend the extra money, your current 4G phone will continue to work just fine- for now.

As I mentioned earlier, 5G offers more bandwidth- which means it can support more data. This network is also more reliable. Some cell phone and tech companies are already offering 5G compatible phones and tablets that make the most out of the new technology.

Your phone is only part of the 5G equation. You may have to pay more for 5G service. It's unclear what the new plans will cost, but it's likely all the major carriers will be competitive to keep customers from jumping ship. In general, you get what you pay for. Better service will mean you will have to pay at least more than your currently used to. Time to start your 5G fund!

5G and You

There's no doubt 5G will change our physical and virtual landscape. However, it's clear this technology comes with major health concerns too. The wave of the future may also mean a wave of new cancers, illnesses, and disabilities.

More research and studies need to be completed before the entire 5G rollout is complete. The potential health consequences associated with the 5G infrastructure is too great to ignore. If you can, stay in contact with your government and advocate for local control over where 5G mini cell towers are located. We must approach this new technology with respect and caution.

For more information on the dangers of cell phone tower radiation check out my blog, [Is Cell Phone Tower Radiation Harmful?](https://www.radiationhealthrisks.com/cell-phone-tower-radiation-harmful/) (<https://www.radiationhealthrisks.com/cell-phone-tower-radiation-harmful/>)

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WHAT INSPIRED THIS WEBSITE



(<https://www.radiationhealthrisks.com/protect-from-rf-radiation-a-helpful-illustrative-guide/>)

Hi! I'm David. Several years ago I read an article about the harmful effects caused by RF Radiation. This led me to an in-depth study of the subject. As I read the findings of many [scientific studies](https://www.radiationhealthrisks.com/scientific-studies/) (<https://www.radiationhealthrisks.com/scientific-studies/>) I was flabbergasted that more people did not know about this. I bought some meters and began testing my own house and then researching ways to correct the issues I found. This website grew out of that research. Now it is one of the most trusted sources to learn about RF Radiation.

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RF Radiation Scientific Studies & Articles

- [Bioinitiative Repor \(http://www.bioinitiative.org/table-of-contents/\)](http://www.bioinitiative.org/table-of-contents/)
[t \(http://www.bioinitiative.org/table-of-contents/\)](http://www.bioinitiative.org/table-of-contents/)
[Summary for the Public \(https://www.bioinitiative.org/report/wp-content/uploads/pdfs/sec01_2007_summary_for_public.pdf\)](https://www.bioinitiative.org/report/wp-content/uploads/pdfs/sec01_2007_summary_for_public.pdf)
- [Is 5G Harmful to Our Health? \(https://www.saferemr.com/2017/09/5g-wireless-technology-is-5g-harmful-to.html\)](https://www.saferemr.com/2017/09/5g-wireless-technology-is-5g-harmful-to.html)

- [WiFi A Threat to Human Health \(https://www.sciencedirect.com/science/article/pii/S0013935118300355#!\)](https://www.sciencedirect.com/science/article/pii/S0013935118300355#!)
- [Children and Cell Phones \(https://microwavenews.com/children.adults.html\)](https://microwavenews.com/children.adults.html)
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EXCLUSIVE MEMBER OF MEDIAVINE HOME

Cell tower microwaves might travel for as few as two miles in hilly areas, and up to 45 miles where there are fewer obstructions; and of course, they easily penetrate brick and metal

Radio masts - Smaller versions of cell towers, often seen on rooftops and billboards, typically installed 800-1300 feet apart.

Mobile towers - Sometimes installed on the tops of buildings. Mobile towers are especially dangerous because they emit microwaves at a frequency of 1900 MHz. Recent studies have shown that the intense radioactivity from mobile phone towers adversely impacts every biological organism within one square kilometer.

Cellphone tower microwaves have a significantly higher frequency than even radio waves. The higher the frequency, the more powerful the wave—and the more powerful effect on biological organisms (recall that a mobile tower emit microwaves at 1900 MHz).

Protecting Yourself and Your Family

Cell phone towers and power lines are virtually everywhere. However, SafeSpace offers a range of effective, affordable products that can help you protect yourself and your loved ones against the dangers from hallmarks of the modern world. For more information, **[click here](#)**.

- I have been told that the RF radiation levels from a proposed cell tower (or from our school's Wi-Fi system) is well below FCC's maximum permissible exposure levels (i.e. FCC compliant) and therefore I should not be concerned. Is there a health risk even at FCC compliant levels?**

A: Compliance to FCC limits means falling below FCC's thermal limit, which is explained above. However there is a lot of peer-reviewed research that demonstrate negative health effects at levels far below the FCC thermal limits. For example, as the 2012 Bioinitiative Report details, peer reviewed published research studies have found negative health effects begin as low as $0.001 \mu\text{W}/\text{cm}^2$. Please see the Charts showing these studies [here](#). $0.001 \mu\text{W}/\text{cm}^2$ is orders of magnitude below FCC's thermal limit of $1000 \mu\text{W}/\text{cm}^2$ for 30 minutes. It is common for the power density to be around a cell tower or school Wi-Fi access point to be in the range $0.1-1.0 \mu\text{W}/\text{cm}^2$, which is well below the FCC (thermal) limit. Reports from RF measuring companies will often report the RF levels as a fraction of the FCC limit, and it is common for the report to say that the RF levels in a school environment with Wi-Fi or

levels in a school environment with Wi-Fi or around a cell tower to be 1/10,000th of the FCC limit. While this sounds low and “safe,” you should know that background levels (i.e. areas that are not near a cell tower or do not have Wi-Fi on) can be as low as 0.0003uW/cm², which is less than 1/1,000,000 of the FCC limit. However this does not mean safe at all.

In summary, FCC compliance means only that there is not enough microwave radiation from the cell tower or device to cook you if you are at a safe distance from it, and FCC limits only protect you from microwave heating effects.

In 2014 a parent in Texas wrote the EPA about chronic exposure and got the following response;

“The standards ...are not intended to address low-intensity (non-thermal), long-term (chronic) exposures. Investigation as to whether there may be effects from exposures too low to cause heating is continuing.” and

“telecommunication service providers and device manufacturers having little more to tell people except “don’t worry.” [Read the Letter](#)

[from George P. Brozowski | Regional Health](#)

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“telecommunication service providers and device manufacturers having little more to tell people except “don’t worry.” [Read the Letter from George P. Brozowski | Regional Health Physicist | US EPA HERE.](#)

+ Are the RF limits in all countries thermal like the US? If not, why not?

+ How do I find out about how many cell towers or cell antennae are near my home?

RESOURCES ON CELL TOWER RADIATION



[Click here to see a slide](#)



City of Carmel By The Sea

1 message

gail cheney <cheney.gail@gmail.com>
To: "Marnie R. Waffle" <mwaffle@ci.carmel.ca.us>
Cc: bobbycheney@gmail.com

Wed, May 1, 2019 at 3:39 PM

Marnie,

Please find the letter below to submit in objection to the proposed Verizon equipment addition to the pole located between our two properties.

Gail

City of Carmel By The Sea
Community Planning and Building Department
Attn: City Clerk
Post Office Drawer CC
Carmel By The Sea, California 93921

Re: Planning case No: DS-19-129 & UP 19-130 (Verizon)

Dear City Clerk,

My husband and I own the two properties that are on either side of the proposed pole location that is being proposed in the above referenced case. We are adamantly opposed to the addition to the pole already visible by both properties. The Verizon box measuring 2' x 6' and a mere 9 feet above the ground will be directly in our sight from the dining area of our property at the NE corner of Lincoln and 10th, and in our direct sight from the living area at our property on the other side at Dolores 2 NW on 10th.

This is inconceivable that the town of Carmel by the Sea would allow such an obtrusive object. It goes against the character of Carmel by the Sea. The addition to the pole is an objectionable size and height. We will be glad to send you pictures from both houses in view of the suggested location.

If you should have any further questions, you may contact me at 214-533-9790 or cheney.gail@gmail.com.

Thank you for your attention to this important matter,

Gail Cheney
Carmel Peninsula Properties

Sent from my iPad



Marnie R. Waffle <mwaffle@ci.carmel.ca.us>

Re: Proposed 5g Cell Tower

Julie Dalton <julie@daltontech.net>

Sat, Apr 27, 2019 at 8:06 PM

To: Chip Rerig <crerig@ci.carmel.ca.us>

Cc: "mgullo@ci.carmel.ca.us" <mgullo@ci.carmel.ca.us>, "mwaffle@ci.carmel.ca.us" <mwaffle@ci.carmel.ca.us>, "mwiener@ci.carmel.ca.us" <mwiener@ci.carmel.ca.us>

Thank you for your response.

My research shows that many cities and counties are challenging the installation of 5G cell towers in residential neighborhoods and in fact there was a CA Supreme Court ruling in T-Mobile vs. San Francisco recently that upheld an Ordinance Regulating Aesthetics of Wireless in Public Rights of Way (T-Mobile West LLC v. City and County of San Francisco, S238001, California Supreme Court.)

<https://www.bbklaw.com/news-events/insights/2019/legal-alerts/04/ordinance-regulating-aesthetics-of-wireless-in-pub>

<https://www.bbklaw.com/news-events/insights/2016/legal-alerts/09/regulation-of-antennas-in-rights-of-way-based-on-a>

Monterey has been successful in stopping Verizon <http://mystreetmychoice.com/monterey.html>

Mill Valley has blocked 5G towers in residential areas <https://www.sfgate.com/local/article/mill-valley-5g-antenna-tower-cell-phone-block-13221925.php>

San Anselmo & Ross have also voted to block installations by issuing an "urgency ordinance" <https://needtoknow.news/2018/11/california-three-city-councils-marin-county-vote-stop-installing-harmful-5g-towers/>

The Conference of Mayors is opposing 5G cell towers <https://www.usmayors.org/2018/09/10/statement-by-u-s-conference-of-mayors-ceo-executive-director-tom-cochran-on-fccs-order-proposing-to-usurp-local-property-rights/>

Property values drop 20% when a small cell tower is put up nearby. A 2014 survey by the National Institute for Science, Law & Public Policy (NISLAPP) found that 94 percent of homebuyers are "less interested and would pay less" for a property located near a cell tower or antenna. The Impact of Cell Phone Towers on House Prices in Residential Neighborhoods study found that buyers would pay as much as 20 percent less, as determined at that time by an opinion survey in addition to a sales price analysis.

Firefighters have successfully fought to have firehouses exempt from cell tower installations because of health problems suffered by firefighters after towers were installed. The International Association of Firefighters opposes cell towers on fire stations after experiencing health problems like headaches, memory issues, confusion, and weakness. Dr. Gunnar Heuser conducted a study on these firefighters and saw that their brain scans showed cell damage even from low-level RF. "We found abnormal brain function in all of the firefighters we examined," Heuser said. A California bill put fire stations exempt from cell towers, but not because they accepted the health concerns — because firefighters have a strong lobbying force. Unfortunately, for school and for residential neighborhoods, we don't have such leverage.

Carmel is a special town worth protecting. And we look to our local government to do that.

I am a professional IT Consultant with over 25 years of experience in the field of technology. I value technology and the benefits it

brings to our lives. I also understand the dangers and believe that no technological advance should be allowed that is not studied sufficiently to be proven safe. That has not been done with 5G. The reasoning they are using to tell us 5G is safe is based on 20 year old research. That is completely unacceptable. We all want the convenience of cell phones and reliable Internet but not at the expense of our well-being. And we certainly do not want

Please stand up for the residents of Carmel and protect us from the harm these towers can do to our health, the beauty of our town, and our property values. This is just one company, Verizon, trying to install small cell towers. Allowing this will pave the way for all the other companies to come in until Carmel is covered with these ugly, dangerous towers.

I ask that this email be entered into the record and added to the planning commission packet.

Thank you,

Julie Dalton

[Quoted text hidden]

LEGAL ALERTS | APR 4, 2019

Ordinance Regulating Aesthetics of Wireless in Public Rights of Way OK'd by California Supreme Court

Decision in *T-Mobile West LLC v. City and County of San Francisco* a Victory for Local Government



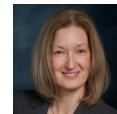
Today marked a win for local government in the fight against preemption over local control of their streets. The California Supreme Court issued a [decision](#) in the *T-Mobile West LLC v. City and County of San Francisco* case. The Court affirmed the [First District Court of](#)

[Appeal decision](#), which had upheld portions of a City and County of San Francisco ordinance regulating telecommunications antennas in public rights of way based on aesthetic concerns. In doing so, the Court recognized there are “significant local interests” in regulating use and management of public streets and the “goal of technological advancement is not paramount to all others.” The wireless industry is increasingly seeking to deploy wireless facilities in public rights of way to add capacity to their 4G networks and to roll out 5G technologies. They have sought to preempt local control over these deployments through court actions, FCC rulings and state laws.

San Francisco adopted an ordinance in 2011 requiring a site-specific permit to install wireless equipment in the public rights of way. It was intended, in part, “to prevent telecommunications providers from installing wireless antennas and associated equipment in the City’s public right of way either in manners or in locations that will diminish the City’s beauty.”

The state law at issue in this case is California Public Utility Code section 7901. It allows telephone companies to construct and maintain telecommunications antennas along public roads in such a manner as to not “incommode” public use of the road. Additionally, PUC Section 7901.1 states that municipalities “exercise reasonable control as to the time, place, and

People



Gail A. Karish

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ASSOCIATE*

(213) 787-2543

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manner in which roads, highways, and waterways are accessed.” But, to be reasonable, that control must, at a minimum, *be applied to all entities in an equivalent manner*. T-Mobile argued that the term “incommodate” refers to matters like blocking the street, and did not permit regulation on the basis of aesthetics at all. And it argued that, in any event, section 7901.1 invalidated local ordinances that applied aesthetic requirements to wireless and not to other street uses.

Section 7901 Does Not Preempt the Ordinance

The California Supreme Court concluded that “neither the plain language of section 7901 nor the manner in which it has been interpreted by courts and the [California Public Utilities Commission] supports plaintiffs’ argument that the Legislature intended to preempt local regulation based on aesthetic considerations.” The Court asserted that a local government has inherent police power to determine the appropriate uses of land within its jurisdiction, which includes establishing aesthetic conditions for land use. Thus, the question was whether section 7901 divests the City of that power. In its analysis, the Court presumed that the ordinance is not preempted absent a clear indication of preemptive intent.

The Court reasoned that, though section 7901 guarantees that telephone corporations do not need to secure a local franchise to operate in the State or construct telephone lines, section 7901 does not relieve telephone companies of the obligation to obtain permits and comply with local land use authority. Hence, it did not preclude localities from using permitting powers and land use authority to address the aesthetics of telephone lines. The Court further supported its decision by noting that the “[California Public Utilities Commission]’s default policy is one of deference to municipalities in matters concerning the design and location of wireless facilities.”

The Ordinance Does Not Violate Section 7901.1

The Court also concluded that the ordinance does not violate section 7901.1. Before trial, both parties agreed that the City treats all utility and telephone corporations equally when dealing with temporary access to the public rights of way during initial construction and installation. The Court analyzed the legislative history of section 7901.1 and ultimately found, as did the trial court and Court of Appeal, that this PUC section only deals with temporary access to the public rights of way. Therefore, the Court concluded that, since both parties agreed that the City does not discriminate when regulating temporary access to the public rights of way, the ordinance does not violate section 7901.1.

The Effects of this Ruling

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This outcome supports local regulation of wireless facility installation aesthetics in California. However, it may have broader implications. The Court was interpreting the scope of City police powers under a statute that permits telephone companies, including providers of wireless telecommunications services, to place facilities in public rights of way subject to local time, place and manner restrictions. Many other states have laws that are similar, and others have statutes that are more protective of local authority over telephone companies, or that do not apply to wireless facilities providers. Moreover, T-Mobile raised discrimination claims that may be similar to claims that are being raised by other companies in other states.

Federal Limitations and FCC Small Cell Order Still Matter

While a positive development at the state level, this court ruling does not change the effect of recent [FCC rules on aesthetics, shot clocks and moratoria, or FCC rules regarding non-discrimination in the public rights of way management](#). Best Best & Krieger LLP represented a lobbying coalition that successfully opposed a California small cell bill in 2017. BB&K represents a large coalition of local governments appealing the recent FCC orders at the U.S. Ninth Circuit Court of Appeals.

If you have any questions about how this decision or the recent FCC orders impact your community, contact the authors of this Legal Alert listed to the right in the firm's [Telecommunications Law](#) practice group, or your [BB&K attorney](#).

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LEGAL ALERTS | SEP 28, 2016

Regulation of Antennas In Rights of Way Based on Aesthetic Concerns Upheld

Court Allows City's Ordinance



Beauty is in the eye of the regulator...at least, according to the First District Court of Appeal. Earlier this month, the court upheld portions of a City and County of San Francisco ordinance regulating telecommunications antennas near the public right of way based on aesthetic concerns.

In *T-Mobile West LLC v. City and County of San Francisco*, the court explained that the City's authority to regulate the installation of telecommunications equipment near public roads allows the City to consider whether the equipment would "diminish the City's beauty."

While the court is interpreting California law, it may have broader implications. The court was interpreting the scope of City police powers under a statute that permits telephone companies, including providers of wireless telecommunications services, to place facilities in rights of way subject to local time, place and manner restrictions. Many other states have laws that are similar, and others have statutes that are more protective of local authority over telephone companies, or that do not apply to providers of wireless facilities. Moreover T-Mobile raised discrimination claims that may be similar to claims that are being raised by other companies in other states.

California's Public Utility Code allows telephone companies to construct and maintain telecommunication antennas along public roads in such a manner as not to "incommode" the public use of the road. A 1995 amendment to the Code states local government may "exercise reasonable control as to the time, place, and manner in which roads, highways, and waterways are accessed," but to be reasonable, that control must, at a minimum, *be applied to all entities in an equivalent manner*.

In 2011, San Francisco adopted an ordinance requiring a site-specific permit before the installation of wireless equipment in the rights of way. The ordinance

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was intended, in part, “to prevent telecommunications providers from installing wireless antennas and associated equipment in the City’s public right of way either in manners or in locations that will diminish the City’s beauty.” The ordinance subjected proposed wireless facilities – but not wireline facilities – to different degrees of scrutiny based on the size of the wireless facilities proposed.

The plaintiffs brought a challenge arguing that local authority to regulate use of the rights of way did not permit it to control placement based on aesthetics and, because the ordinance applied only to wireless facilities, it violated the equivalence provisions of the Code. The appellate court rejected both claims.

Citing a Ninth Circuit U.S. Court of Appeals decision from 2009, and focusing on the term “incommode,” the court explained that regulation of the use of the road was not limited to preventing physical obstructions and may include “social, expressive and aesthetic functions.” (*Sprint PCS Assets v. City of Palos Verdes Estates.*) The court concluded that state law reserves to local government the police power to regulate against inconvenience of public use, a power that is “broad enough to allow discretionary aesthetics-based regulation.”

Turning to the discrimination claim, the court noted that the wireless facilities were “‘generally similar in size and appearance’ to equipment installed by ‘landline’ telephone corporations, cable television operators, and PG&E.” However, the court ruled that the duty to provide “equivalent access” merely meant that the City must apply similar rules in regulating the temporary disruption of the right of way associated with construction or maintenance, and did not require the City to regulate the impacts associated with wireless and wireline equipment identically.

The challenge was a state law facial challenge – meaning that plaintiffs did not challenge the denial of an application to install facilities at any particular location. If such challenges are raised, providers can be expected to claim that a denial violates the federal law provisions prohibiting or effectively prohibiting the provision of personal wireless services. It is quite possible the case will be taken to the California Supreme Court. However, for now, the case provides support for local regulation of wireless aesthetics in California, and in states with similar laws, or laws that preserve greater authority over wireless facilities.

For more information regarding this opinion, please contact one of the attorney authors of this Legal Alert listed at the right in the firm’s [Municipal](#) or [Telecommunications](#) groups, or your [BB&K attorney](#).

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Mill Valley blocks faster, smaller cell phone towers over cancer fears

By **Michelle Robertson**, SFGATE Updated 4:45 pm PDT, Tuesday, September 11, 2018



IMAGE 1 OF 10

A file photo of a large 5G radio network antenna base station. Mill Valley recently passed an ordinance to block 5G transmitters in residential areas.

Mill Valley has yet to receive a single proposal to deploy small-cell 5G wireless towers within town limits. That has not stopped officials from blocking the antennae in residential areas altogether. The future is 5G, most telecommunications companies say, but that future will not be coming to this upscale town in Marin County.



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Members of the Mill Valley city council voted unanimously last week to block deployments of 5G towers in the city's residential areas by activating an **urgency ordinance**. The legislation, which is active immediately, allows authorities to enact regulations affecting the health and safety of residents. San Anselmo and Ross have already adopted similar ordinances.

"The urgency ordinance has standards to limit and prohibit the installations of devices in residential neighborhoods, but there is more that we can do," Mill Valley Mayor Stephanie Moulton-Peters told the Marin Independent Journal.



The paper said residents from all over Marin "packed the council chambers" to urge officials to prevent cell phone companies from building 5G towers in the county.



Their opposition to the towers was stoked by fears they could increase cancer risks and other health

problems associated with

exposure to electromagnetic fields, including fatigue, headaches, anxiety, learning and memory disorders, heart and sleep problems, and increased cancer risk, according to the EMF Safety Network. The group seeks to keep communities free of electromagnetic fields and wireless radiation.

The 5G towers would enable faster and higher-capacity streaming. The 5G towers are actually smaller than 4G towers, easier and cheaper to install, and emit less radiation, according to **TechCrunch**.

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Though the telecommunications industry has vehemently denied links between health effects and antennae, scientists continue to debate the matter.

"I don't think it's clear that there are health risks, but it's also not clear that there are no health risks," Leeka Kheifets, an epidemiology professor at UCLA's Fielding School of Public Health, told the **LA Times**.

In December, the California Department of Health issued **guidelines** recommending reducing exposure to radio frequency energy from cell phones.

"Although the science is still evolving, there are concerns among some public health professionals and members of the public regarding long-term, high use exposure to the

energy emitted by cell phones," said CDPH Director and State Public Health Officer Dr. Karen Smith in a statement. "We know that simple steps, such as not keeping your phone in your pocket and moving it away from your bed at night, can help reduce exposure for both children and adults."

FCC Chairman Ajit Pai and his Republican commissioners do not seem to share such fears. In March, **the FCC enacted a new policy** to make it easier for operators to deploy 5G infrastructure. The new rule removes federal oversight of some small cell deployments, removing obstacles outlined in the National Historic Preservation Act and National Environmental Policy Act.

State and local regulations still apply, hence the efficacy of the Mill Valley ordinance, which is designed to thwart the FCC's new rule.

Mill Valley will look into crafting a permanent ordinance later in the year.

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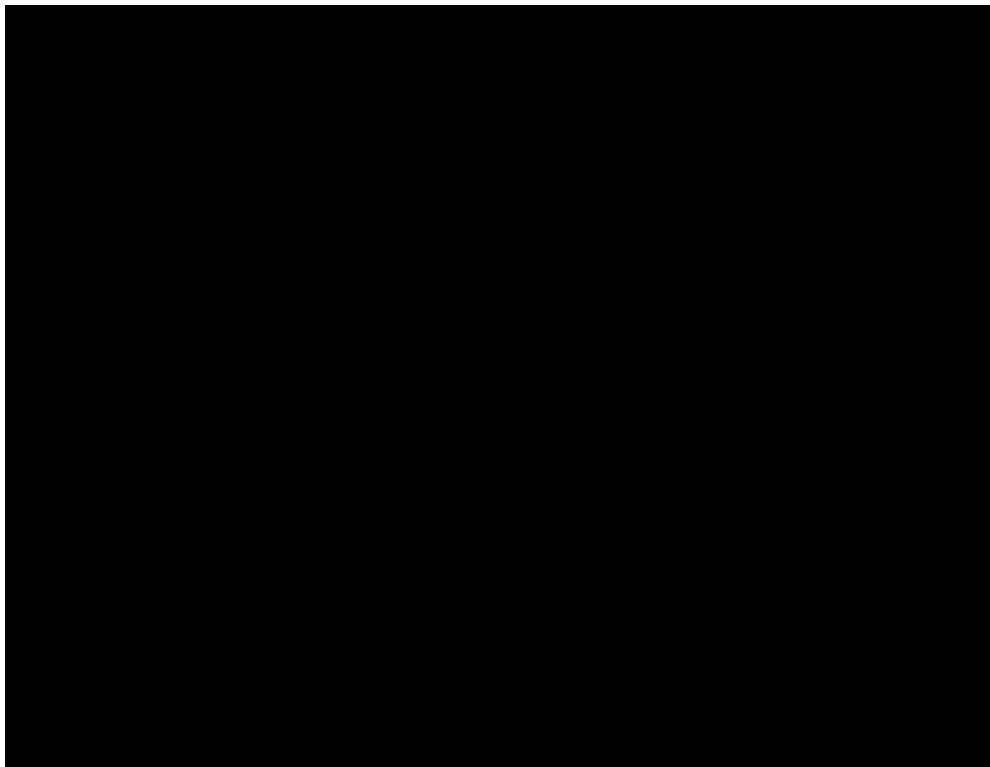
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Mill Valley, California, a wealthy city just north of San Francisco, voted unanimously to effectively halt the installation of new small cell towers which carry the 5G technology. The city issued an “urgency ordinance” that allows it to enact regulations and prohibitions for all future applications to build 5G telecommunications equipment in the city. The city received 145 pieces of correspondence from citizens voicing opposition to the technology, which represents more than 1% of the population of 14,000 people. Two more cities, San Anselmo, and Ross, also in Marin County, passed similar ordinances.

Tom Wheeler, the former head of the FCC, gave the go-ahead to have new antennas placed on nearly every telephone pole that will generate strong, pulsed ultra-high frequency radio waves that are much more dangerous to human health than our present technology. In addition, the wireless devices that connect to 5G emit EMF (electromagnetic frequency waves) and can cause infertility, cancer and other diseases.



As 5G technology begins to roll out across the country, it is being met by a massive wave of resistance over concerns that it can cause health problems. One city in California—reacting to an overwhelming outpouring of concern—has

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Dr. David Brownstein says that the two-dose vaccine for chicken pox does lower the rate of that

taken an extreme step and blocked the technology from being implemented.

This week, the city of Mill Valley, CA, a wealthy city just north of San Francisco, voted unanimously to effectively halt the installation of new small cell towers which carry the 5G technology.

The city enacted an “urgency ordinance” after it received over a hundred letters from concerned citizens expressing their worries over the new 5G towers.

As Tech Crunch reports:

Through an urgency ordinance, which allows the city council to immediately enact regulations that affect the health and safety of the community, the restrictions and prohibitions will be put into force immediately for all future applications to site 5G telecommunications equipment in the city. Applications for commercial districts are permitted under the passed ordinance.

The ordinance was driven by community concerns over the health effects of 5G wireless antennas. According to the city, it received 145 pieces of correspondence from citizens voicing opposition to the technology, compared to just five letters in support of it — a ratio of 29 to 1. While that may not sound like much, the city’s population is roughly 14,000, indicating that about 1% of the population had voiced an opinion on the matter.

Mill Valley residents cited multiple studies which claim that experts have found evidence that cell phone radiation can cause cancer.

The town of 14,000 now joins several other towns who’ve blocked the installation of 5G over health concerns. Before Mill Valley blocked 5G, other municipalities in California, such as Marin County and San Anselmo, passed similar ordinances.

Similar movements to block 5G have taken place across the country as well.

“The cell towers are called small cell towers, but they are not so small when they are in your front yard,” said Donna Baron, a resident of Montgomery County, Maryland who is actively protesting the installation of 5G in her town.

“This will cause cancer,” she said.

childhood illness.
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Concerns over [cell phone radiation](#) are nothing new. It is a fact that cell phones emit radiation. It is also a fact that this radiation can be absorbed by the human body from prolonged exposure.

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What makes 5G more intimidating and poses more health risks is that 5G achieves its super-fast streaming speeds and infinite data capabilities by tapping into a never-before used bandwidth called the millimeter wave (MMW) which is a pulsed radio wave of extremely high frequencies of 30 GHz and 300 GHz (as well as utilizing some mid-range and lower frequencies).

5G will reduce download times to mere nanoseconds— 10 gigabits per second, at an estimate, which is some 50 to 100 times faster than our current 4G speeds.

Plus, 5G will also require a crazy new amount of EMF-emitting wireless transmission towers, practically one on every telephone pole, because MMWs cannot travel as far or as effectively as 4G waves nor do they travel well through solid objects, poor weather conditions, buildings, houses, stadiums—any kind of interference.

What this means is that this new technology will require thousands, in fact, millions more transmitters— of all kinds—more routers in our homes and small smoke-detector sized transmitters on telephone poles spaced about every 150 to 200 feet on up to every street, highway, and rural route around the world.

Desiree Jaworski, executive director of the Center for Safer Wireless, [explains](#), “5G signals will be harder for people to avoid. Right now, you don’t have to live next to a cell tower. If you’re concerned about it, you can move away. But once they have these cell antennas everywhere, you won’t be able to do that.”

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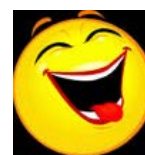
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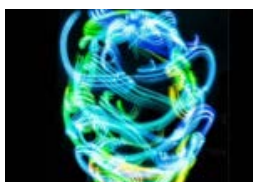
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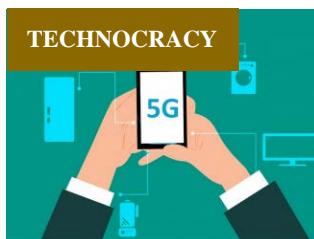
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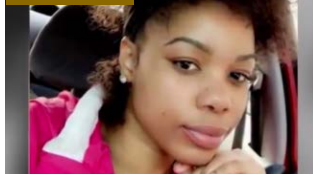
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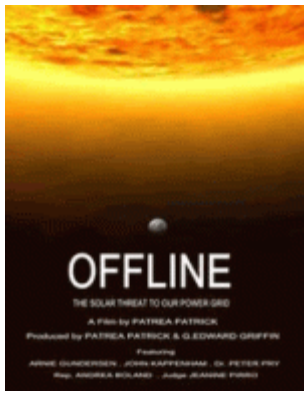
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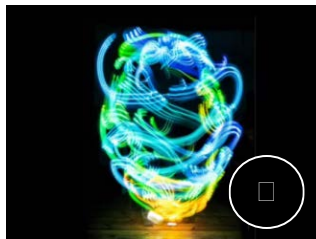
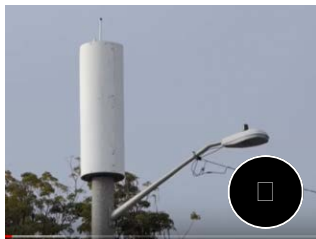
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[...] November 11, 2018 Free Thought Project Health 0 [...]

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[California: Three City Councils in Marin County Vote to Stop Installing Harmful 5G Towers](#)

[...] Posted November 19, 2018 Mill Valley, California, a wealthy city just

north of San Francisco, voted unanimously to effectively halt the installation of new small cell towers which carry the 5G technology. The city issued an “urgency ordinance” that allows it to enact regulations and prohibitions for all future applications to build 5G telecommunications equipment in the city. The city received 145 pieces of correspondence from citizens voicing opposition to the technology, which represents more than 1% of the population of 14,000 people. Two more cities, San Anselmo, and Ross, also in Marin County, passed similar ordinances. [Read more....](#) [Read more »](#)

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Good News! 5g/IoT - mania is imploding on itself • ZERO5G

[...] What some other cities are doing:

<https://needtoknow.news/2018/11/california-three-city-councils-marin-county-vote-stop-installing-harmful-5g-towers/>; <https://www.marinij.com/2018/10/04/fairfax-to-study-fiber-optic-broadband-amid-protest-against-5g/> [...]

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ABOUT THE EDITOR



G. Edward Griffin is a writer and documentary film producer with many successful titles to his credit. Listed in Who’s Who in America, he

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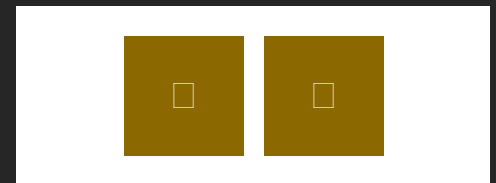
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is well known because of his talent for researching difficult topics and presenting them in clear terms that all can understand.

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**THE UNITED STATES
CONFERENCE OF MAYORS**



Statement by U.S. Conference of Mayors CEO & Executive Director Tom Cochran on FCC's Order Proposing to Usurp Local Property Rights

Washington, DC—Below is a statement by U.S. Conference of Mayors CEO and Executive Director Tom Cochran on recent FCC proposals diminishing local government ownership rights over local rights-of-way and other public property:

“The U.S. Conference of Mayors strongly opposes recent proposals by the Federal Communications Commission to grant communications service providers subsidized access to local public property and to dictate how local governments manage their own local rights-of-ways and public property. This unprecedented federal intrusion into local (and state) government property rights will have substantial adverse impacts on cities and their taxpayers, including reduced funding for essential local government services, as well as an increased risk of right-of-way and other public safety hazards.

“We believe the courts will conclude that FCC’s proposals are based on misguided interpretations of federal law. Congress previously addressed and resolved these issues resoundingly in favor of local and state governments and their property rights. The Conference and its member cities reject efforts by this unelected federal regulatory agency to improperly invade state and local government authority by compelling local elected officials to subsidize, or “gift”, local public property to a small, favored group of private businesses. According to FCC’s own estimates, just one of these actions – the proposed small cell rules – threatens future revenues to local (and state) governments by billions of dollars over the next decade.

“The Conference of Mayors strongly opposes these proposals and calls on the agency to change them; absent such changes, the Conference and its members will seek relief in federal court to overturn this unprecedented overreach by the FCC.”

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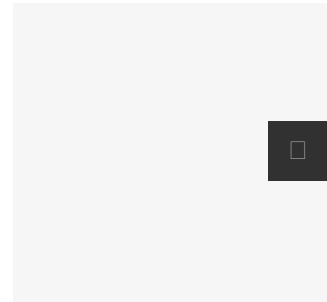
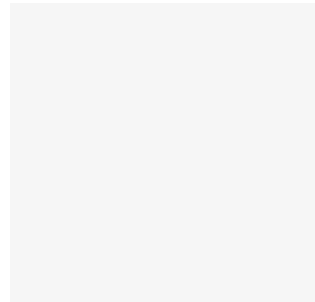
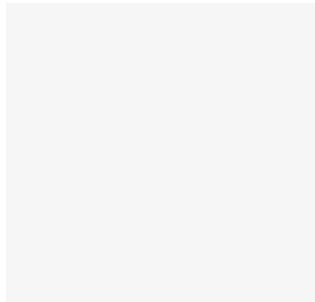
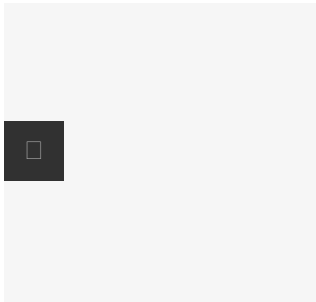
By Sara Durr | September 10, 2018 | News, Press Room

About the Author: Sara Durr



Sara Durr is our Director of Communications at the Conference. She can be contacted by phone at 202-215-1811 or via email at sara@durrcommunications.com.

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ABOUT US

The United States Conference of Mayors is the official non-partisan organization of cities with a population of 30,000 or larger. Each city is represented by its chief elected official, the mayor.

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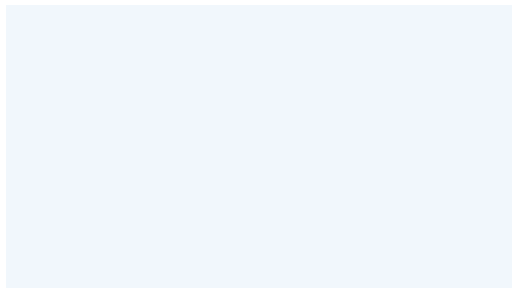
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3/15/18 Success: Monterey Vista Neighbors Defended Their Homes

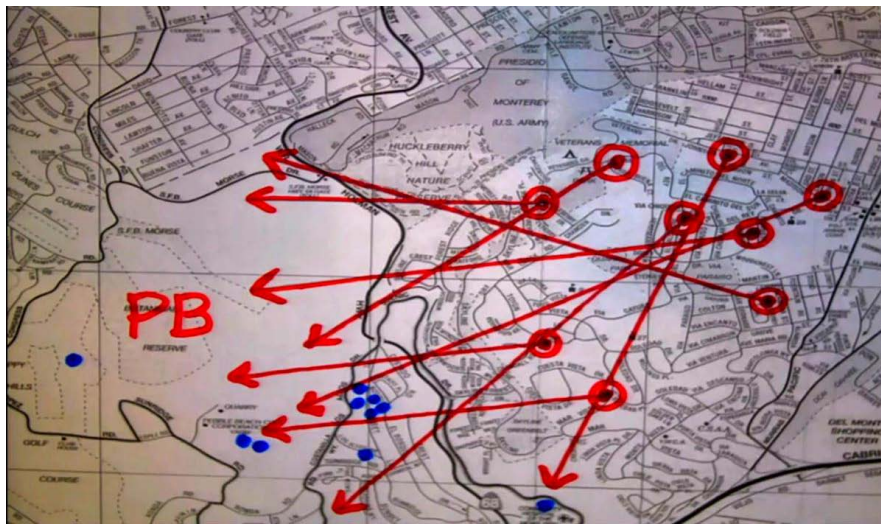
On March 15, 2018, the Monterey Planning Commissioners conducted a nearly six hour meeting to consider a proposal to allow Close Proximity Microwave Radiation Antennas (CPMRA) in a residential neighborhood adjacent to the Pebble Beach Golf Course — a course which will be hosting the US Open Golf Tournament in 2019. Recall that this is the same golf course that hosts the annual and secretive AT&T-sponsored "Speaker's Cup", a tournament named after the California State Speaker of the Assembly. This is a not-so-subtle attempt to underscore the tournament's purpose: well-healed lobbying of our State Legislators by their bosses (the Wireless Industry).

Astute residents of the Monterey Vista neighborhood plotted the azimuths of the directional antennas for 13 CPMRA/Cell Tower installations proposed for this residential neighborhood to shine the light on this "hidden objective" of the project. Fortunately, the Monterey City Planning Commissioners saw right through this ruse and voted to deny the project outright.

In many ways, Monterey sets a shining example of how to uncover the **rampant deception** behind the push for Close Proximity Microwave Radiation Antennas being installed in residential areas. Watch the video, below, to see all the hard work, legal analysis, scientific findings and creative props that enabled this community to **exercise real democracy**.



00:03:38 for General Public Comment | **00:35:45** for Lee Afferbach | **02:53:00** for Public Comment on Agendized Item | **04:49:15** for the Vote/Applause



This is How A City Wins!



Monterey Planning Commission
Special Meeting, March 15, 2018



Monterey Planning Commission
Special Meeting, March 15, 2018

Monterey Vista Residents addressed their Planning Commissioners, echoing the words of Patrick Shannon from Hillsborough: "Do the right thing, protect your residents and avoid our City from becoming the place where democracy goes to die and cell towers metastasize."

Denied: 13 4G/5G Close Proximity Microwave Radiation Antennas (CPMRA)

Read the Cedar St. Times article: "Small Cell Towers Nixed at Monterey Planning Commission".

What We Know: This Is Not Good

The World Health Organization has classified radio frequency microwave electromagnetic fields from any source (pulsed, data-modulated, Radiofrequency Microwave Radiation radiation) as a Group 2B Carcinogen. Dr. Lennart Hardell, a member of the IARC committee wrote in his 3/12/18 comments on the National Toxicology Program final results:

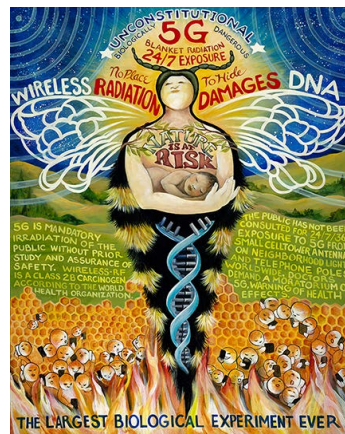
Based on the IARC preamble to the monographs, RF microwave radiation should be classified as Group 1: The agent is carcinogenic to humans.

"This category is used when there is sufficient evidence of carcinogenicity in humans. Exceptionally, an agent may be placed in this category when evidence of carcinogenicity in humans is less than sufficient but there is sufficient evidence of carcinogenicity in experimental animals and strong evidence in exposed humans that the agent acts through a relevant mechanism of carcinogenicity." (<http://monographs.iarc.fr/ENG/Preamble/current/6evaluation0706.php>)

These so-called "Small Cell" towers would be installed just 15-50 feet from homes and transmit hazardous levels of pulsed, data-modulated, radio frequency microwave-millimeter wave radiation 24/7/365 — with no chance to opt out. Recall, that people damaged by 24/7/365 exposures from the Wireless Advanced Metering Infrastructure's (AMI) so-called "Smart Meters" forced PG&E to offer an opt out program. We need such an opt out for these CPMRA installations, as well: My Street, My Choice!

The Solution: Fiber to the Premises (FTTP)

The solution is both simple and easy — instead of more Wireless, install Wireline fiber optic cables to each home and business in Monterey, which will provide much faster, more secure, more reliable and much more energy-efficient transmission of Internet and video data. Doing so would preserve the unique character of Monterey and prevent the private Telecom companies from shoving these these cheap, ugly, intrusive, microwave-radiation-emitting CPMRA installations into our town.



The City of Monterey does not even allow its residents to attach signs or notices to the utility poles downtown; how could they consider attaching such ugly, intrusive and hazardous refrigerator-sized (25-35 cubic feet) equipment to these utility poles?

Despite the promises of additional convenience and the unbridled hype for 5G and the "Internet of Things" (IoT), the primary duty of our elected officials is neither convenience, nor promised future economic growth, but to promote and preserve the health and welfare of the Town of Monterey's residents, voters and taxpayers.

What you Can Do

To voice your opposition to Cell Towers being installed 10 to 50 feet from homes and local workplaces, please come to the Town of Monterey City Planning Commission and City Council Meetings and speak or support others who will speak against these hazardous, visual blights that could blight our beautiful town for the rest of our lives. To find out more about this project, please contact the City of Sonoma Planning staff and Planning Commissioners:

Read the Following:

- [City of Monterey General Plan](#)
- [City of Monterey Municipal Code: Telecommunications Facility and Antenna Criteria](#)
- [City of Monterey Verizon Wireless Applications](#)



5G installation

1 message

Ilyww@sbcglobal.net <Ilyww@sbcglobal.net>
To: mwaffle@ci.carmel.ca.us

Tue, Apr 30, 2019 at 1:59 PM

Hello

This is an email concerning the installation of 5G in the Carmel area. First of all, it looks terrible, I am concerned with the buzzing sound and

the microwave radiation.

Please count me as an opponent of this installation and add this email to the public record, and the planning commission packet.

Thank you for help in this matter.

Linda Hall



Oppose cell tower Mission & 12th

1 message

Costa, Nicole <nicole@digopt.com>

Mon, Apr 29, 2019 at 5:41 PM

To: "mwaffle@ci.carmel.ca.us" <mwaffle@ci.carmel.ca.us>, "crrig@ci.carmel.ca.us" <crrig@ci.carmel.ca.us>

I am writing to oppose putting a cell tower on the residential street in downtown Carmel, Mission & 12th Street. I work on Mission street at Carmel Academy of Performing Arts. We have lots of students many of whom are in the building 20 hours a week. I don't know how clear the reseach is but putting a cell tower right beside homes and close to downtown does not seem to be the best location. I think there must be a less populated area to place it. Please **enter this letter into the record and put in the planning commission packet.**

Thank you,
Nicole Costa



**Carmel-
by-the-Sea**

Marnie R. Waffle <mwaffle@ci.carmel.ca.us>

Cell tower

1 message

Sporleder <sporleder@comcast.net>
To: mwaffle@ci.carmel.ca.us

Sat, Apr 27, 2019 at 10:02 AM

I oppose the installation of the cell tower proposed for Mission St in Carmel (or any other residential neighborhood). Please **enter my complaint into the record and put in the planning commission packet** for the upcoming hearing in May.

Nancy Sporleder



**Carmel-
by-the-Sea**

Marnie R. Waffle <mwaffle@ci.carmel.ca.us>

Verizon tower

1 message

Tim Allen <tim@uniquepeninsulahomes.com>
To: mwaffle@ci.carmel.ca.us

Thu, May 2, 2019 at 1:05 PM

Marnie, I was informed that Verizon was planning on installing a cell tower next door to our home on San Antonio and 10th. I am surprised that the city of Carmel would consider allowing a tower this tall and unsightly. I think it takes away from the character of the neighborhood as well as blocking the views from our neighbors property east of us.

We would appreciate your help in stopping this unsightly development in our neighborhood.

Thank you,

Tim Allen



No Cell Towers

1 message

Tay Scott <tayscott@outlook.com>

Sat, Apr 27, 2019 at 11:03 AM

To: "mwaffle@ci.carmel.ca.us" <mwaffle@ci.carmel.ca.us>

Dear Marnie R. Waffle, AICP, Senior Planner,

I've heard that the city of Monterey was able to stop the installation of cell towers because of an outpouring of opposition. Please add my name to the list of those opposing the 5 cell towers in Carmel. (I received notice that one is to go next door to me - at 10th Avenue 1 NW of Dolores. This is distressing indeed.)

Please enter my name "into the record" as AGAINST - and add with the names of others opposed - into the planning commission's packet.

Please no cell towers in Carmel.

Thank you for helping to protect us.

Sincerely,

Tay Scott - 10th Ave 2 NW San Carlos (I've lived on this property since 1989 - and in Carmel since 1980. Too many sad changes... Please help.)



George R. Walker, Esq. (1928-2018)
Hansen P. Reed, Esq.
Ashlee E. Gustafson, Esq.
John N. Staples, III, Esq.

**Via Email: mwaffle@ci.carmel.ca.us
and US Mail**

May 1, 2019

Author's Email Address:
hreed@walkerandreed.com

Carmel Planning Commission
c/o Marnie R. Waffle, AICP
Senior Planner, City of Carmel-by-the-Sea
P.O. Box CC
Carmel-by-the-Sea, CA 93921

Re: Verizon Site #1 - San Antonio & 10th

Planning Commissioners:

I represent Peter and Sara Sterling, the owners of the house located at the NW corner of San Antonio and 10th, in Carmel-by-the-Sea ("Residence"). It has come to my clients' attention through the attached posted notice (Attachment 1) that a small cellular antenna and equipment (the "Small Cell Tower") is proposed for installation on the public utility pole immediately adjacent to their Residence on San Antonio ("Site #1").

Please be advised that my clients are adamantly opposed to the placement of the Small Cell Tower at Site #1. The Small Cell Tower's bulky equipment will be located directly outside my clients' second story living room window (likely within 20 to 30 feet). Their view of San Antonio will forever be unacceptably altered if the Small Cell Tower is approved for Site #1.

In addition to the impact to my clients' view of San Antonio, Site #1 is not a good site for this proposed Small Cell Tower because of the extraordinary impacts to the aesthetic and scenic quality of the ocean views from surrounding residential properties. In reviewing the attached visual simulation (Attachment 2), there will be a significant pole extension, likely between 10 and 15 feet, making the utility pole at least 33% taller than it currently stands.

Carmel is known for its scenic beauty and preservation of its ocean views (arguably its most important resource). The increased pole height and bulky equipment will have a significant impact on the ocean views and affect countless number of residents. I attach several photos which show the current view from 10th Street over my clients' property (Attachment 3). The visual simulation does not adequately show the impacts to the views.

WALKER+REED
ATTORNEYS AT LAW P.C.

My clients understand and acknowledge that Federal Law preempts California and City law. However, it is good to review several sections of Chapter 17.46 to the Carmel-by-the-Sea Code (Telecommunications and Wireless Facilities), which are relevant and were put in place to protect the scenic nature of Carmel-by-the-Sea:

Code 17.46.010B: The provisions of this chapter are to: “Minimize adverse aesthetic impacts associated with wireless communications facilities in all districts.”

Code 17.46.020A: “... Such facilities shall be discouraged in ... areas of extraordinary scenic quality...”

Code 17.46.040D: “Wireless communications facilities shall be screened from any public viewing areas to the maximum extent feasible.”

Site #1 has a significant and unacceptable impact on all of the above cited City Code sections. My clients are not opposing the installation of the small cell towers in the City of Carmel-by-the-Sea, they are simply opposing the intended location at Site #1. There are several other utility poles located within a couple of hundred feet of Site #1 that would be more appropriate as those sites blend in with the trees and would not impact the extraordinary scenic ocean views. In addition those locations would also not impact my clients’ living room view of San Antonio. I attach a photo of another possible location near Site #1 (Attachment 4).

My clients respectfully request that the Small Cell Tower proposed for Site #1 be rejected as an unreasonable impact on the scenic ocean views and as an unreasonable impact to my clients’ views of San Antonio.

However, notwithstanding the above, if the Planning Commissioners elect to move forward and approve Site #1, my clients respectfully request that the applicant be required to install all equipment, other than the antenna, underground. In addition to limiting the visual clutter on the pole the undergrounding of equipment is a way to protect the forest neighborhood and houses from potential fires caused by the electrical equipment. Everyone in California has seen the damage to Northern California caused by electric utility poles.

If you have any questions, please feel free to contact our office.

Very truly yours,

/s/ Hansen P. Reed

Hansen P. Reed, Esq.

HPR/bhs
Enclosures

cc: Clients (w/o Enclosures)



PUBLIC NOTICE

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16

The Planning Commission of the City of Carmel-by-the-Sea will conduct a public hearing on **Wednesday, May 8, 2019**, in City Hall located on the east side of Monte Verde Street between Ocean and 7th Avenues. The Public Hearing begins at 4:00 p.m. or as soon thereafter as the agenda permits. The purpose of the hearing is to gather public input prior to taking action on the proposal described in this notice. Persons interested in the proposal are encouraged to review additional materials available at the Department of Community Planning and Building located at City Hall on Monte Verde Street between Ocean and 7th Avenues, phone number 831-620-2010, prior to the meeting date. Note, this item may appear on the Consent Agenda. Items on the Consent Agenda will be approved without discussion unless someone requests otherwise. For all other items, staff will present the project, then the applicant and all interested members of the public will be allowed to speak or offer written testimony before the Commission takes action. Decisions to approve or deny the project may be appealed to the City Council by filing a written notice of appeal with the office of the City Clerk within (10) working days following the date of action by the Decision-Making Body and paying the requisite appeal fee. For those projects listed as appealable to the California Coastal Commission, appeals of any City Council action may be filed with the Coastal Commission for no fee, by filing a written notice of appeal with the Coastal Commission's Central Coast office in Santa Cruz. Such appeals must be filed within the ten working days of the Coastal Commission's receipt of the City's Final Local Action Notice.

IF YOU CHALLENGE THE NATURE OF THE PROPOSED ACTION IN COURT, YOU MAY BE LIMITED TO RAISING ONLY THOSE ISSUES YOU OR SOMEONE ELSE RAISED AT THE PUBLIC HEARING DESCRIBED IN THIS NOTICE OR IN WRITTEN CORRESPONDENCE DELIVERED TO THE PLANNING COMMISSION ON OR THE CITY COUNCIL AT, OR PRIOR TO, THE PUBLIC HEARING.

Proposed Action: Consideration of a Design Review (DR 19-129) and Use Permit (19-130) for the installation, operation and maintenance of small cell wireless communications facilities on separate existing PG&E utility poles located within the public right-of-way at five separate locations in the Single-Family Residential (R-1) Zoning District.

Project Location: San Antonio 1 NE of 10th Ave

Parcel Description: Public Right-of-Way

Environmental Status: Exempt

Coastal Permit Status: Required

Planning Case No.: DR 19-129 & UP 19-130 (Verizon)

Is this Project appealable to the Coastal Commission?

NO YES

Applicant: Verizon Wireless, Pete Shubin, Agent

Case Planner: Marnie R. Waffle, AICP, Senior Planner

Project plans can be viewed at: <http://ci.carmel.ca.us/post/planning-commission-meetings>

Date of Notice:

Date of Publication:

Date Posted: _____

Posted By: _____

Location Posted: _____



SOUTH CARMEL 001

IFD A2 LOT 11 SAN ANTONIO AVE CARMEL CA 93923

RECEIVED

MAR 27 2019

City of Carmel-by-the-Sea
Planning & Building Dept.



VIEW 1



LOCATION

©2019 Google Maps



EXISTING



PROPOSED

LOOKING NORTHWEST FROM 10TH AVENUE











Fwd: Please Prevent Verizon from Installing Its Towers

1 message

Marc Wiener <mwiener@ci.carmel.ca.us>
To: Marnie Waffle <mwaffle@ci.carmel.ca.us>

Mon, May 20, 2019 at 11:58 AM

Marc Wiener, AICP

Community Planning and Building Director
Carmel-by-the-Sea, CA/93921/PO Drawer G
(831) 620-2024
mwiener@ci.carmel.ca.us



Help improve Community Planning & Building. [Click here](#) to take our survey!

----- Forwarded message -----

From: **Caroline Chambers** <caro.chambers@gmail.com>
Date: Mon, May 20, 2019 at 11:46 AM
Subject: Please Prevent Verizon from Installing Its Towers
To: <mwiener@ci.carmel.ca.us>

Marc,

I am a new parent and business owner in Carmel. We have lived here for two years and plan to make this town our home forever. I am emailing to ask that you record my strongest opposition to the installation of Verizon's planned towers and do everything in the town's power to keep them out of our city. I fear that the towers are detrimental to our property values because of their negative health effects and unsightly appearance. This is the most important issue of the year for our citizens.

Keep these towers out!

Thank you
Caroline Chambers

--

caroline chambers | www.carolinechambers.com | 336.414.6889

My first cookbook, Just Married, published on October 16th and is available for [order](#) on Amazon!

Fwd: Citizens Opposition to Verizon Towers

1 message

Marc Wiener <mwiener@ci.carmel.ca.us>
To: Marnie Waffle <mwaffle@ci.carmel.ca.us>

Mon, May 20, 2019 at 11:57 AM

Marc Wiener, AICPCommunity Planning and Building Director
Carmel-by-the-Sea, CA/93921/PO Drawer G
(831) 620-2024
mwiener@ci.carmel.ca.us

Help improve Community Planning & Building. Click [here](#) to take our survey!

----- Forwarded message -----

From: **George Hodgkin** <george.hodgin@gmail.com>
Date: Mon, May 20, 2019 at 5:34 AM
Subject: Citizens Opposition to Verizon Towers
To: <mwiener@ci.carmel.ca.us>

Mr. Weiner,

I am e-mailing you to express my opinion as a citizen and taxpayer in Carmel that Verizon's Towers do not belong here. I sincerely hope that you do everything in your power to make it known to Verizon and the other staff and elected officials that we do not want these towers. They are unsafe, bad for home values and will force us to reconsider our residency in this town. They are a nuisance and we don't want this to be an invitation to other wireless providers that Carmel by the Sea will just roll over and allow people to put towers wherever they please.

Thank you,

George Hodgkin

--

George Hodgkin
704-905-8703 | Carmel, CA