



Science On Cell Towers & Health

The Majority of Cell Tower Studies Report Effects

A review on people living near cell towers published in *Environmental Health* by Balmori (2022) found the majority of studies reported impacts from exposure, primarily radiofrequency sickness, cancer, and altered biochemical markers.

Cancer

Multiple epidemiological studies on cell towers report increased cancer incidence and mortality among populations living close to cell towers. Elevated risks have been observed for a range of cancers, including breast, lung, leukemia, and childhood neoplasms. Studies have reported biochemical changes in the blood predictive of cancer risk.

Genetic and DNA Damage

Genetic effects have been observed in people living near towers, and studies have reported increased DNA strand breaks, chromosomal aberrations, and micronuclei.

Hormonal and Metabolic Effects

Long-term exposure has been linked to endocrine system impacts, including altered levels of thyroid, reproductive, and stress hormones. A study on students found those with higher RF exposures due to nearby cell antennas had elevated levels of blood sugar marker HbA1c and increased risk of type 2 diabetes mellitus.

Neuropsychiatric and Cognitive Symptoms

Residents living close to towers report more health issues, including headaches, sleep disturbances, fatigue, irritability, memory problems, and difficulty concentrating. Case reports describe “microwave syndrome” symptoms in individuals exposed to newer 5G infrastructure. Research has also linked cell tower RFR to poorer attention and impaired cognitive performance.

**Scientific research studies at this link*

EHSciences.org

PEER REVIEWED PUBLISHED RESEARCH ON CELL TOWER RADIATION, BASE STATION RADIATION AND HEALTH EFFECTS



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

Read how and why **California firefighters**
successfully fought to have cell towers

Adverse Health Effects from Radiofrequency (RF) Radiation with a Focus of AMI Meters

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SO

Dr. David Carpenter
Testimony on "Smart" meters to WSSC
10/21/2020 WSSC Commission Meeting

說明



Dr. David Carpenter Testimony on Smartmeters to WSSC



Environmental Health Trust

55

喜歡次數

847

觀看次數

2020年

10月27日

Learn more about Smartmeters at
<https://ehtrust.org/ed...>



Environmental Health Trust



說明



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1.4萬位訂閱者

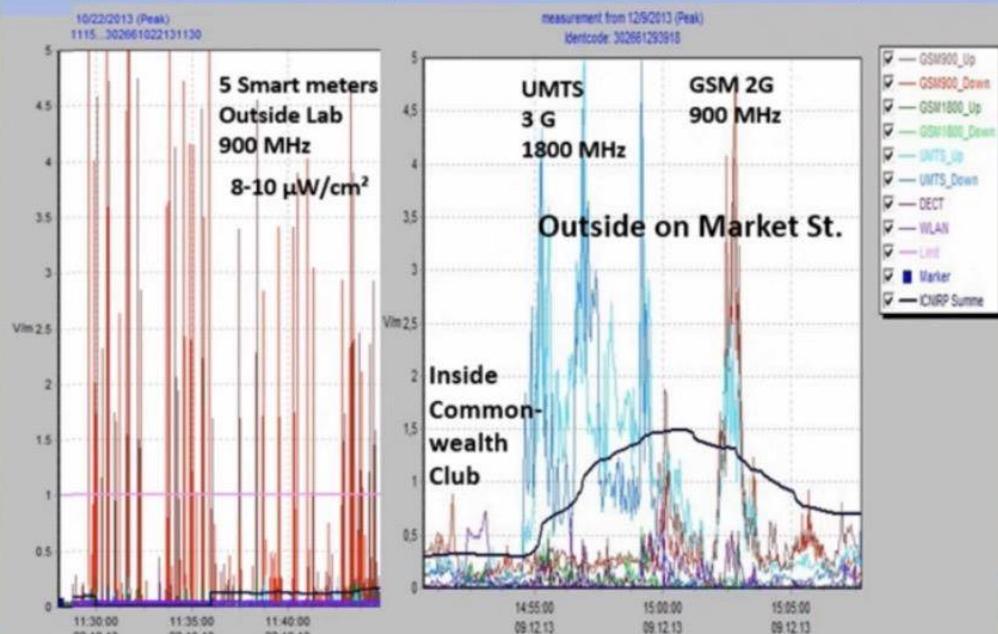
Who Am I?

- I am David O. Carpenter, a public health physician who received both AB and MD degrees from Harvard University. I chose public health and research over clinical practice.
- My initial involvement of electromagnetic field (EMF) effects was during my tenure as Chair of the Neurobiology Department at the Armed Forces Radiobiology Research Institute in Bethesda. I then became the Director of the Wadsworth Center for Laboratories and Research at the New York State Department of Health, where one of my responsibilities was to administer a research program on health effects of magnetic fields coming from electricity. After that program ended I became the spokesperson for EMF issues in New York State until I moved to the University at Albany as Dean of the School of Public Health. When I stepped down as Dean I became the Director of the Institute for Health and the Environment, which has been designated as a Collaborating Center of the World Health Organization, a position I hold today.



Smart Meters @ 8 feet : Market St. San Francisco

15 minutes on Oct 22, 2013 15 minutes on Dec 9, 2013



Conclusions

- EHS is real, but not everyone is electrosensitive. There is something about the signals from AMI smart meters that makes them particularly provocative, probably the very rapid rise and fall of the signals.
- EHS is related to other disease syndromes characterized by similar symptoms. Much more study is needed to determine what are the triggering events and especially what are the mechanisms of action.
- AMI meters benefit the utility but not the consumer.
- Individuals who become ill from AMI meters placed on their home should have the ability to “opt-out” because they are dangerous to the health of those who are sensitive to RF signals.



Medical School and I worked for the New York State Department health for 18

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Public Health Physician Warns of Smart Meter Dangers, Stresses Need for Analog Option

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4月29日

Maine's Smart Meter Safety Coalition (www.smartmetersafety.org) recently caught up with Dr. David Carpenter, a Harvard Medical School-trained physician who headed up the New York State Dept. of Public Health for 18 years before becoming Dean of the School of Public Health at the University of Albany, where he currently directs the Institute for Health al ...[更多內容](#)



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開啟應用程式



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evidence and in fact while no one has actually done human health studies

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ARE CORPORATIONS PAVING A PERILOUS PATH...
DIRECTLY INTO OUR HOMES?

"PUBLIC ENDANGERMENT
IS NOT AN ACCEPTABLE
BY-PRODUCT."

JEFFREY ARMSTRONG,
FORMER APPLE EXECUTIVE

"WHAT MAKES THE
GOVERNMENT THINK
THEY CAN USHER US INTO
A TOTALITARIAN STATE?"

FOSTER GAMBLE, CREATOR, *THRIVE*

TAKE BACK YOUR POWER

INVESTIGATING THE "SMART" GRID



TAKEBACKYOURPOWER.NET
Community | Solutions | Resources



About the Filmmaker

Josh del Sol leads the Take Back Your Power action community, which is instrumental in the campaign to redirect 5G toward safe technologies. The TBYP community has grown to more than 200,000 participants. Join here:

<https://takebackyourpower.net/subscribe>



Josh del Sol
(click for larger size)

In 2019, Josh produced and hosted the [*5G Crisis: Awareness & Accountability Summit*](#) with co-host Sayer Ji. This summit powerfully and credibly exposes the significant negative downside of “5G” technology. Josh interviews 40 of the world’s leading PhD, legal experts, researchers and public safety advocates. Watch it free today:

<https://the5Gsummit.com>

In 2017, Josh co-founded [*InPower Movement*](#) with Cal Washington. InPower is pioneering a unique process for individuals to enforce commercial liability to prevent harmful technology including ‘smart’ meters.

In 2013, Josh directed and produced the [*Take Back Your Power*](#) documentary: winner of the AwareGuide Transformational Film of the Year, the Indie Fest Annual Humanitarian Award, and Leo Award for Best Feature Documentary (British Columbia).



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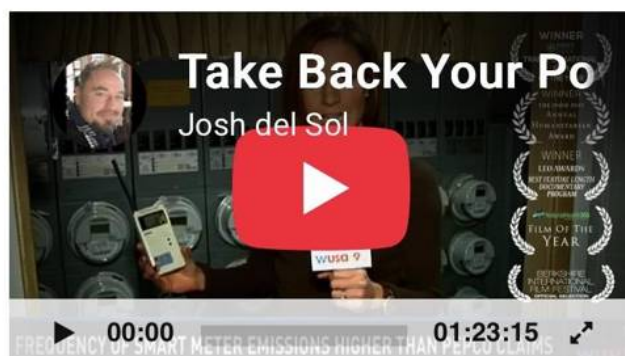
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Born and raised near Vancouver BC, Josh is passionate about human rights, consciousness, decentralized energy production, safe technology and fatherhood. His hobbies include hiking, research and travel. He lives in Washington State with his daughter. Josh can be reached through our [contact](#) page.

Type here to search...



WATCH: TAKE BACK YOUR POWER



Smart Meters



Smart meters are designed to collect information from different electrical appliances in your home, using an algorithm that identifies each appliance by their unique electricity signature (appliances do not have to be 'smart' or wifi enabled). The information is then transmitted wirelessly – this can be several times a day and night – via a nearby telecommunications phone base station on to ESB Networks, and then to your utility provider.

The data collected by smart meters is transmitted to ESB Networks over a 3rd party mobile telecommunications network, Three Ireland, using pulsed radio frequency (RF) radiation. Smart meters also add electrical interference (otherwise known as dirty electricity) to electrical wiring on the house wiring- this too can contribute to adverse health effects.

Not all smart meters are equal, as different countries and companies use a variety of makes and models. The smart metering programme in Ireland is at an early stage and it is important to point out that from our testing, RF wireless transmissions may not be as easily measured as seen on some smart meters in other countries. Smart meters can emit short spikes of RF that are difficult to pick up with standard RF measuring equipment even though the smart meter is transmitting often.

Smart meters that have been activated to Time of Use/smart tariffs would be sending data and transmitting more frequently. ESB Smart Metering website states that these transmissions will increase in the future.

ESB are carrying out the installation of electricity Smart meters which will initially use “digital technology and the 2G mobile phone network” Further wireless frequencies and more increased transmissions will be utilised with the intention of connection to smart appliances and devices in-house.

Update 13/5/22 ESB website now includes additional information that some 4G technology is used in smart meters in Ireland – and that future phases will have different frequencies, technologies and modulations.

‘The smart meters currently being installed in Ireland use 2G or a specific type of 4G technologies, and therefore the transmissions have these specific modulations. Smart meters installed in future phases of the rollout could use different technologies with different frequencies and modulations ‘

<https://www.esbnetworks.ie/services/manage-my-meter/smart-meters-health—safety/exposures>

Regardless of using 2G, 4G or whatever, increased exposure over time is potentially harmful (as with smartphones, devices, wifi etc). Even if smart meters in Ireland only transmit every few hours or half hourly currently this may be increased in the future. It is not just the RF radiation that is a concern, as the ‘dirty electricity’ produced by smart meters can and do cause adverse health effects.

You have a legal right to refuse a Smart Meter, but you must contact ESB to opt out. [How to Refuse](#)

Our Smart Meter [Leaflet](#)

Smart Meters and Health

"Many of them said they had never heard of electrical sensitivities before, were developing strange symptoms they never had before, could not use computers, wi-fi or cell phones any more without painful symptoms (even though previously they had been using them heavily with wi-fi in offices and on in homes 24/7). Weeks or months after their symptoms began they first discovered a smart meter on their home. Upon inquiry, they found out it had been installed at the time or just before their symptoms initiated... All this was surprising to me because this device was initiating ES (electrosensitivity) in previously normal, healthy persons who had tolerated wi-fi and cell phones for years with no problems."

Richard H. Conrad, Ph.D., John Hopkins trained biochemist – [Pre-Filed Testimony](#) to the Maine Public Utilities Commission regarding [Smart Meter Opt out Program, Feb 1, 2013](#)

"The Board of the American Academy of Environmental Medicine opposes the installation of wireless "smart meters" in homes and schools based on a scientific assessment of the current medical literature ... Chronic exposure to wireless radiofrequency radiation is a preventable environmental hazard that is sufficiently well documented to warrant immediate preventative public health action." [American Academy of Environmental Medicine 2012 calls for a halt to Smart Meters](#)

The book **Smart meters, dirty electricity, pulses and health** by Einar Flydal and Else Nordhagen 2023 is now available for download <https://einarflydal.com/2023/05/25/the-book-smartmeters-dirty-electricity-pulses-and-health-is-now-for-download/>

"There really are people who feel pain, etc., related to EMF,..." In 2010 Smart Meter industry leaders in USA admitted in private emails that they are aware of health effects and other problems associated with smart meters <http://stopsmartmeters.org/>

What's wrong with Smart Meters?

NOT HEALTHY:

Acute health problems reported where smart meters are installed include heart palpitations, chest pain, inability to concentrate, feeling faint, headaches, dizziness, irritability, nausea, sleep difficulties, and tinnitus and auditory problems. [Health complaints](#) . Many people have had no choice but to leave their homes as a result of illness from smart meter radiation and electrical interference (dirty electricity).

July 2019 – French Court rules against Smart Meters for Health reasons
<https://www.connexionfrance.com/French-news>

Accumulative long-term exposure to microwave radiation can lead to depression, chronic illnesses,

Alzheimer's, neurological illnesses and cancers. Children, the elderly and those with already compromised health are most at risk of developing acute or long-term illnesses from exposure to smart meters.

Smart Meters have also been known to interfere with heart pacemakers and other implanted medical devices.

Smart Meters add electrical interference, sometimes called '[dirty electricity](#)' on home and building wiring. [EMF-Consult-Smart-meters-dirty-electricity-w-intro-EFlydal-ENordhagen-2022.04.06-v.2.0-1](#)

2021 USA – 81 Organizations Urge PA Supreme Court to Reject Smart Meters Mandate
<https://safetechinternational.org/imp-filed-81-organizations-amicus-against-smart-meters-mandate/>

Engineers Report – [SUPREME-COURT-OF-PENNSYLVANIA-MIDDLE-DISTRIC](#)

The Ecologist -Smart meter radiation and health – why are we neglecting non-toxic alternatives?
<https://theecologist.org/2017/jun/06/smart-meter-radiation-and-health-why-are-we-neglecting-non-toxic-alternatives>

NOT GREEN:

Trees, plants, animals and birds can all be affected by smart meter radiation [See here](#).

Smart Meters are not environmentally friendly. Consider the huge environmental cost to produce millions of new meters and to dispose of current meters, as well as installing a new smart grid – an unnecessary expense as existing meters work perfectly well.

Smart meters will have to be replaced every approximately every 5 – 15 years compared to existing and non-smart meters which last 20 – 40 years. <https://smartgridawareness.org/2015/10/29/smart-meters-have-life-of-5-to-7-years/>

*'One of the requirements of smart meters is that they **need replacing once every 10 years**, which is more regularly than traditional gas and electricity meters.'* <https://www.comparethemarket.com/energy/content/are-smart-meters-compulsory/>

'Smart meters will need to be replaced around every 10 years – which is more often than current gas and electricity meters.' <https://www.which.co.uk/reviews/smart-meters/article/smart-meters-explained/smart-meter-installation-aSTuj9y6lANt>

Smart meters will be on all the time, collecting information, storing and transmitting that data as well as contributing to electrical interference. Extra electricity will be required to power the Smart Grid, and Data Centres to collect and store all this information are huge consumers of energy.

Do not believe the spin about Smart Meters helping to combat climate change. Smart Meters are bad for the environment and wildlife and will cause more harm than good.

Smart Meters themselves do not reduce your electricity or gas consumption, only tell you how much you are using – existing non-smart meters do that.

NOT SECURE:

Smart meters and the Smart Grid are vulnerable to hacking, remote interference and cyber attacks. Customer data, which is transmitted to ESB via Three Ireland telecommunications infrastructure – a third party – can be used for criminal purposes, ie checking your daily activities and whether you are at home or not.

“Then there is the vexed question of data protection and privacy. Experts claim that a trained eye would be able to look at the data coming from your smart meter and tell what time you get up in the morning and go to bed at night. They would be able to tell when you have a shower, when you are on holidays, when you are at home and when you are not. That’s the type of information that would be manna from heaven for hackers, for burglars, for advertisers who want to call to your door or call you on the phone, and to law enforcement who may want to

track your movements” [Will Goodbody RTE – Smart Meters could Spark Problems if Mishandled – September 2017.](#)

[Security flaw found in mandatory smart meters. Hackers could “turn the lights off in a city or neighborhood” – Consumer Affairs.Com](#)

PRIVACY and GDPR:

Utilities companies will collect non-essential data – via a third party telecommunications company – about living habits in your home and business. Information can be sold to marketing companies. Digital and privacy rights campaigners are highlighting serious concerns about this.

April 2021 – Green Party TD Patrick Costello has requested that the Data Protection Commissioner (DPC) address privacy concerns around ESB smart meters. <https://www.independent.ie/irish-news/news/data-protection-commissioner-is-asked-to-investigate-esb-smart-meters-40289903.html>

November 2024 – ‘Data recorded on smart meters should not be a secret’, Digital Rights Ireland. <https://www.digitalrights.ie/data-recorded-on-smart-meters-should-not-be-a-secret/>

Nov 2024 – ESB’s refusal to give householder details of smart meter data ‘heightens suspicions about surveillance’ <https://www.irishexaminer.com/news/arid-41510012.html>

Software company admits smart meter data gathering to sell for profit : <https://takebackyourpower.net/onzo-admits-smart-meter-spying-for-profit/>

The Gist: How Smart Is Your Meter? People are being told to switch to smart meters to save money. Except, something is up with the whole project. (Nov 2022) <https://www.thegist.ie/the-gist-how-smart-is-your-meter/>

FIRE RISK:

There have been reports of smart meters causing fires in other countries.

We are not aware of any fires or explosions of smart meters fitted in Ireland.

Summary of Evidence on Smart Meter Fires emfsafetynetwork.org

Warning – Smart Meters cause Fires stopsmartmeters.org.uk/warning-smart-meter-fire-risks-refuse-smart-meters/

Are smart meters a FIRE hazard? BBC Watchdog investigation finds poorly fitted meters may have started blazes <https://www.thesun.co.uk/money/4112372/bbc-investigates-smart-meters-safety-house-fires/>

SaskPower to remove 105,000 smart meters following fires <https://www.cbc.ca/news/canada/saskatchewan/saskpower-to-remove-105-000-smart-meters-following-fires-1.2723046>

Ontario ordered to remove 5,400 smart meters over safety concerns <https://nationalpost.com/news/toronto/ontario-ordered-to-remove-5400-smart-meters-over-safety-concerns>

Lawsuits claim faulty PG&E Smart Meters started house fires <https://abc30.com/lawsuits-claim-faulty-pg-e-smart-meters-started-house-fires/2657513/>

SAVINGS:

Many consumers have reported higher bills since smart meters were installed.

The cost of production and installation will be passed on to you.

Smart meters will allow utility companies to control pricing around times when you use your electricity or gas. Prices will be hiked at peak times.

August 2022 – **Threats of blackouts if customers do not sign up to smart tariffs and reduce peak time electricity usage :**

Threat of tea-time blackouts and price rises if peak-time electricity use does not fall
<https://www.independent.ie/news/threat-of-tea-time-blackouts-and-price-rises-if-peak-time-electricity-use-does-not-fall-41921653.html>

Energy regulator warns of blackouts due to high peak-time power use. Households may be nudged to lower their usage at tea-time and data centres could also be targeted <https://www.independent.ie/irish-news/energy-regulator-warns-of-blackouts-due-to-high-peak-time-power-use-41922018.html>

<https://stopsmartmeters.org/faq-billing-issues>

and [ElectricalEngineering/smart-meter-owners-report-higher-bills-than-savings.aspx](https://www.electrical-engineering.com/smart-meter-owners-report-higher-bills-than-savings.aspx)

What is the Cost of the Smart Meter Programme?

“ The replacement of over 2 million electricity meters with the next generation electricity meter over a six-year period will cost some **€1.2 billion**” According to [CRU](https://www.cru.ie/)

Consumers will pay for it. While ESB claim “**There is no additional charge for upgrading your meter. Like other meter upgrades, the cost is included in your existing charges for use of the electricity network**”, the following articles say differently – that consumers will pay an extra €5.50 per year for 20 years ‘to help fund the project’.

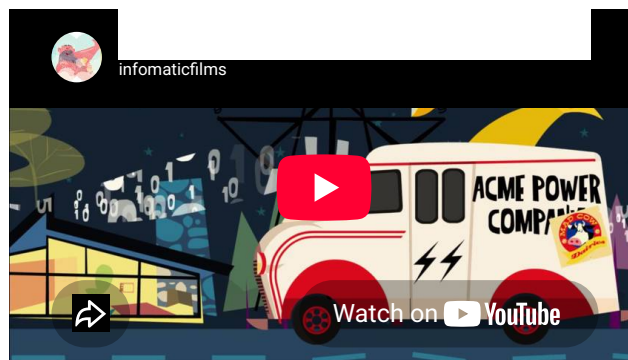
<https://www.rte.ie/brainstorm/2018/0410/953366-smart-electricity-meters-are-coming-so-what-can-we-expect/>.

<https://www.independent.ie/irish-news/12bn-plan-for-smart-gas-and-electricity-meters-to-be-installed-in-every-household-36154062.html>

... “Like other infrastructure upgrades, the cost of the meter upgrade will be recouped over time in charges paid by suppliers, and in turn customers, for the use of the electricity network.” <https://www.bonkers.ie/blog/gas-electricity/smart-meter-tariffs-here-s-everything-you-need-to-know/>

“The meters do come at a cost, too. Customers will see €5.50 added to their bill each year for the next two decades in order to cover the rollout” <https://www.rte.ie/news/business/2021/0703/1232855-smart-electricity-meter/>

Smart Meters are Not Mandatory. You have a Lawful Right to Refuse [Find out How HERE](#)



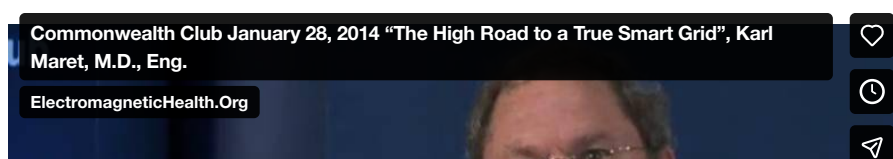
Cartoon Courtesy of Infomatic Films <http://infomaticfilms.com/download.htm>

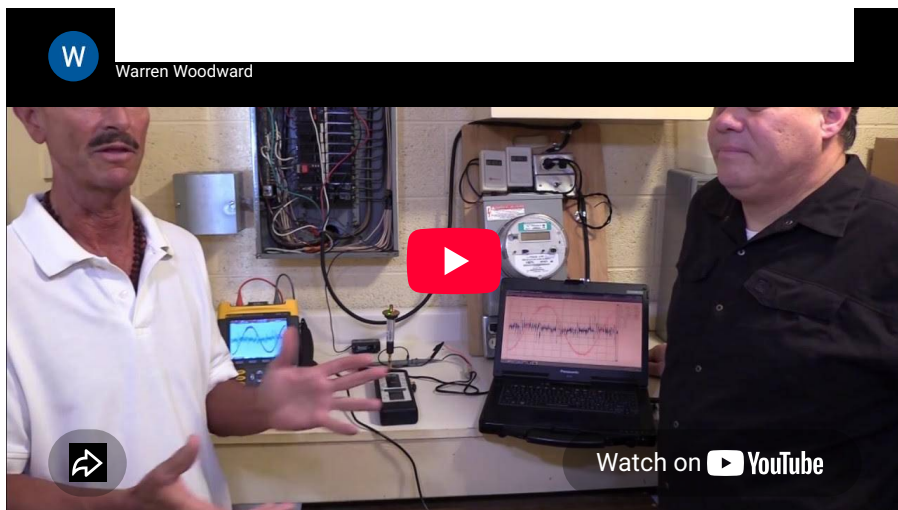
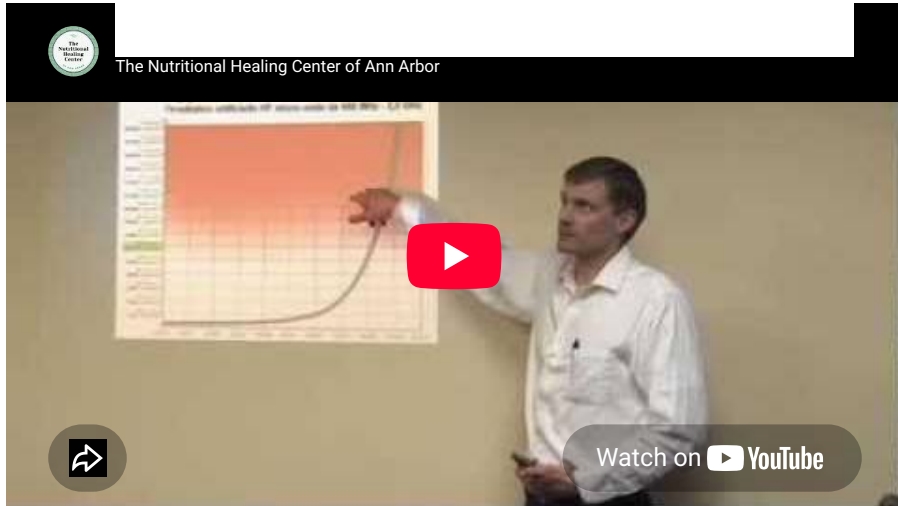
Award Winning Smart Meter Documentary – Take Back Your Power (Full Official Version) : [Watch Here](#)

In the UK, **Dr Andrew Goldsworthy, Lecturer in Biology of Imperial College London**, wrote to The Commons Select Committee UK in response to smart meter roll-out there. [Read Response HERE](#)

[July 2016 – “Smart Meters ‘not needed’ after all for European Smart Grid”](#)

Dr Karl Maret Engineer, discusses Smart Meter Potential Health Effects:





There are hundreds of campaigns against Smart Meters around the world, and warnings from scientists, doctors and those already affected by smart meter radiation. These english language websites are just a small number of them :

[Stop Smart Meters \(UK\)](#)

[Stop Smart Meters \(USA\)](#)

[Smart Meter Harm](#)

[Smart Meter Education Network \(USA\)](#)

[Stop Smart Meters Australia](#)

[Smart Grid Awareness](#)

[Smart Meter Dangers](#)

[EMF Safety Network](#)

[EMR Health Alliance of BC \(Canada\)](#)

[Stop Smart Meters BC \(Canada\)](#)

[Refuse Smart Meters \(USA\)](#)

[Stop Smart Meters New Zealand](#)

[Take Back Your Power website and Award Winning Documentary](#)

[Dr Magda Havas – Smart Meters](#)

Disclaimer: This commentary is intended to help advance knowledge in the areas discussed and provide background information based on existing knowledge and related factors that may influence safety, well-being, productivity and sustainability. It is not intended as a final statement on the areas discussed, and as more information becomes available the opinions given may develop, be adapted or change. Whilst all reasonable precautions have been taken to ensure the validity of the information presented, no warranty is given towards its accuracy. No liability is accepted by the authors for damages arising from its use and/or interpretation by others. The comments given are being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the materials lies with the reader/listener. In no event are the authors liable for damages arising from their use. All references to smart meters refer to wireless devices, which may vary in their emissions.

Electromagnetic Sense Ireland

A WordPress.com Website.

Closing Statement

Human Rights Protection and Liability for Fire

To: Taiwan Power Company, Taipei North Branch Office · Copy to: Ministry of Economic Affairs

I. My Home and Private Life Are Protected by International Human Rights Law

“No one shall be subjected to arbitrary or unlawful interference with his privacy, family, home or correspondence.”

INTERNATIONAL COVENANT ON CIVIL AND POLITICAL RIGHTS · ARTICLE 17

- Under Article 2 of the Act to Implement the ICCPR and ICESCR, the human rights protections set out in the two Covenants have the force of domestic law. Article 4 of the same Act requires all government agencies at every level to exercise their powers in compliance with the human rights provisions of the two Covenants.
- Article 12 of the Universal Declaration of Human Rights likewise protects an individual's private life and home from arbitrary interference.
- Article 22 of the Constitution and Judicial Yuan Interpretation No. 603 protect the right to informational privacy — an individual's right to control his or her own personal data.
- **This household was burgled. The theft was reported to the police on October 8, 2025, and nearly a year later the case remains unsolved.** Smart meter electricity data can reveal when no one is home, and Ireland's national broadcaster RTE has reported that such data could be exploited by burglars. Until the burglary is solved, I cannot hand over data on my household's daily routine to any party.
- Forcibly installing a device in my home that continuously records my daily routine and constantly emits wireless signals, without offering any means of refusal, is precisely an interference with my home and private life.

II. Who Bears Responsibility in the Event of Fire or Damage

- Smart meter fires have occurred abroad. In Canada, SaskPower recalled about 105,000 smart meters after fire incidents, and the province of Ontario was ordered to remove 5,400 units. In California, lawsuits have alleged that PG&E smart meters caused house fires.
- The meter is the property of your company, which selects the model and contracts the installer. **If a defect in the equipment or improper installation causes a fire, property loss, or personal injury at my home, your company and its contractor shall bear full liability for compensation.** I may seek redress under Article 184 of the Civil Code (tort liability), Article 191 (liability of the owner of a structure or work), and Article 7 of the Consumer Protection Act (business operators must ensure the safety of the goods and services they provide and are liable for any resulting damage).
- **I have not consented to the installation and accept no responsibility whatsoever** for any damage arising from equipment defects or improper installation.
- **I have expressly refused the installation, and your company should not schedule any further work.** Should your company disregard my refusal and proceed with installation, this would constitute an interference with my home and private life, and your company and its contractor shall bear full responsibility for any resulting fire, property loss, or personal injury. I will seek compensation in accordance with the law.

III. My Position

On the basis of international human rights covenants, the Constitution, and the Personal Data Protection Act, I expressly refuse the replacement of my meter with a smart meter. I will retain my existing meter. No one may carry out work at my residence without my written consent. Should your company proceed with the replacement without my consent, I will file petitions with the Ministry of Economic Affairs, the Control Yuan, and the competent personal data protection authority, and I reserve all legal rights of action.

— ☒ —

Declarant: _____ (Signature) Date: ____ / ____ / 2026