



With Gratitude to the Lee, MA Select Board

Utility Smart Meter Risks & Public Safety Solutions

Rex Funk, EMRS
Healthy Homes Specialist, EMF Check

March 23, 2026

Rex Funk, EMRS

- ▶ Wi-fi injured @ work
- ▶ [Building Biology Institute Electromagnetic Radiation Specialist Certified](#)
- ▶ Purposeful EMF mitigation
- ▶ EMF Check, healthy home specialist, <https://www.emfcheck.com/>



Eversource Energy Handling

“Like all forms of **energy**, natural gas must be handled properly.”

- Wireless radiation is a form of man-made energy
- Wireless radiation must be **handled properly too**



Utility “Smart” Meters

- ▶ Some pulse radiation continuously
- ▶ Can hop on house wires/pipes
- ▶ Fires, explosions, improper grounding
- ▶ Data harvesting, privacy issues
- ▶ Leading cause of sudden onset EMR Syndrome
- ▶ [TedX Talk](#): Jeromy Johnson, engineer
- ▶ [TedX Talk](#): Dr. Alexia McKnight

New Start Program
Eversource offers the New Start Program to our customers who are experiencing difficulties paying their utility bills. If you qualify for the Discount Rate, you may be eligible to participate. Call 866-861-6225 or visit Eversource.com/billhelp for more information.

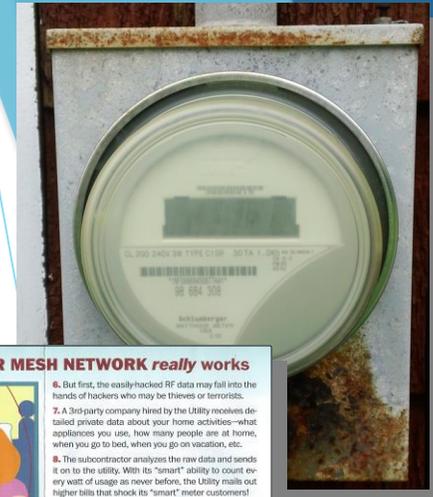
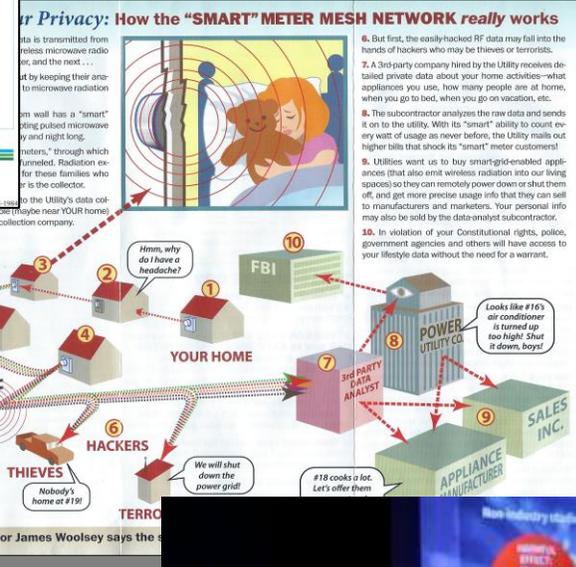
Discount Rate Automatic Matching
The Massachusetts Department of Public Utilities requires all electric and gas utilities to make customer information available to the Massachusetts Executive Office of Health and Human Services (EOHHS) to identify and automatically enroll customers who may be eligible for Eversource's Discount Rate.

To exclude your information from the list, please call 800-592-2000.

To apply for the Discount Rate, visit Eversource.com/billhelp and download an application or call 800-592-2000. Submit your completed form and documents by:

1. Logging into your account at Eversource.com and selecting "Upload Documents."
2. Mailing to Eversource, 247 Station Drive, NW200, Westwood, MA 02090-9909.
3. Faxing to 781-441-8512.

EVERSOURCE



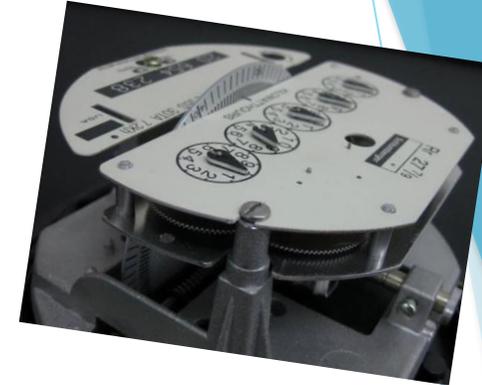
Dr. Alexia McKnight
Tech-Savvy Tips to Revolutionize Your Health
TEDxLancaster

Video thumbnail showing a woman presenting on a stage with a screen displaying statistics: 70%, 32%, 30%, and 68%.

Meter Types & History

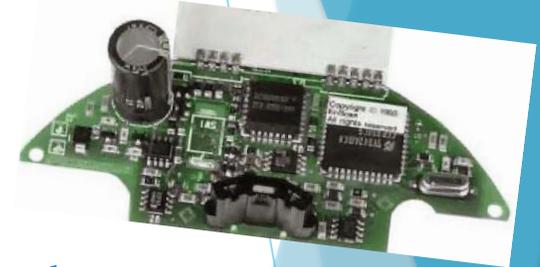
1. Pure Analog Meters

- Had to be eyeballed by **Meter Reader**



2. Electromechanical Meters (Analog + an electronic transmitter)

- Powered by a **battery**
- Would remain silent until meter reader was near, then broadcast for a short duration



3. AMR - Automated Meter Reading, no mechanical parts, connected to power wiring

- Evolved: broadcasts more often, so meter-readers merely **drive through neighborhood** and catches the broadcasts
- Evolved: broadcasts to Utility networking infrastructure (fewer Meter Readers required)
- Evolved: broadcasts consumption info to each other, forwarded to home office; no need for Meter Reader



Meter Types & History

4. AMI - Advanced Metering Infrastructure - “Smart Meters”

- **Two-way radiation transmissions, cumulative from neighbors, infrastructure = much more radiation**
- Evolved, to send richer data, encrypted, time-of-use consumption, house device integration
- Listens for remote commands to turn ON/OFF connected devices or whole service



5. Non-Broadcasting Opt-Out Meter

- Can be Analog, AMR or AMI without any information transmitter
[**No FCC ID** will be listed on the label]



How We Know Some 'Smart Meters' Are Harmful

Careful testing by the manufacturers?

NO

Careful testing by regulatory authorities?

NO

People voicing their illness to their doctors?

YES

People testifying about their illness to local government?

YES

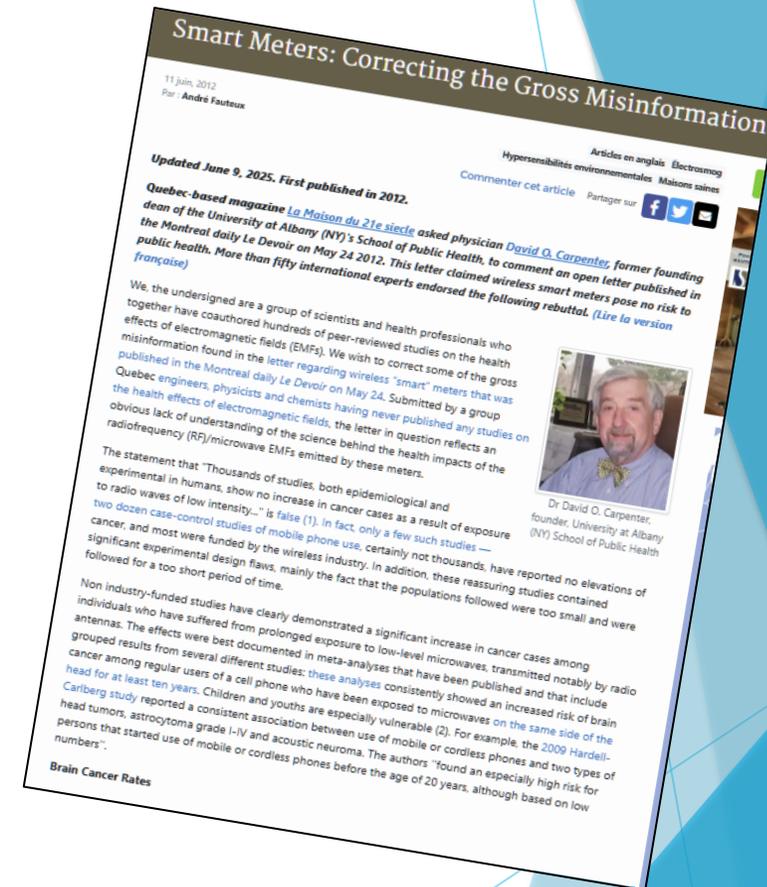
People responding to surveys with supporting details?

YES

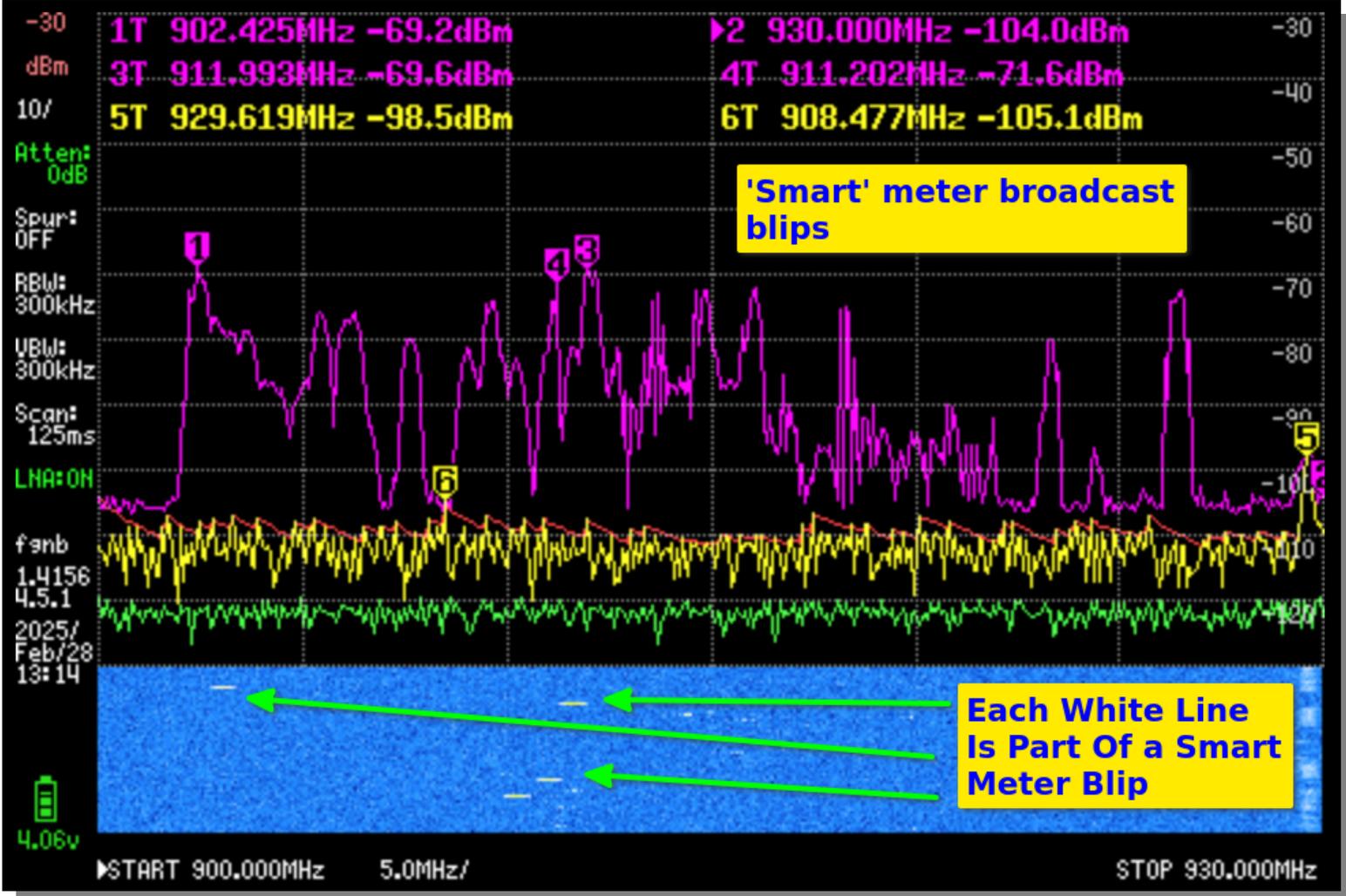
Researchers identifying harmful aspects of some meters?

YES

[Smart Meters: Correcting the Gross Misinformation, Dr. David Carpenter](#) (Expert Testimony on Lee PCBs; Univ. of Albany, SUNY, Department of Environmental Health Sciences)



What 'Smart Meter' Pulsations Look Like



Top 20 Symptoms Reported from Smart Meters

1. **Blood Pressure** (Elevated or Low)
2. **Heart Palpitations**, Heart Racing
3. **Ear Ringing**, Buzzing, Tinnitus
4. **Eye Pain**, Vision, Cataracts
5. **Nausea**, Vomiting
6. **Fatigue**, Exhaustion, Stress
7. **Anxiety**, Agitation
8. **Irritability**, Bickering, Arguing
9. **Insomnia**, Sleeplessness
10. **Involuntary** Muscle Contractions
11. **Leg Cramps**, esp. In Bed
12. **Brain Fog**, Lack of Concentration
13. **Dizziness**, Disorientation, Vertigo
14. **Head Pressure**, Heat, Piercing Pain
15. **Headache**, Migraine
16. **Nerve Damage**, Shooting Pain
17. **Numbness**, esp. in Hands/Feet
18. **Short Term Memory** Loss
19. **Respiratory** Problems
20. **Tingling**, Burning, Itching Skin

Symptoms of EMF-Overexposure With Focus on Residential 'Smart' Meters

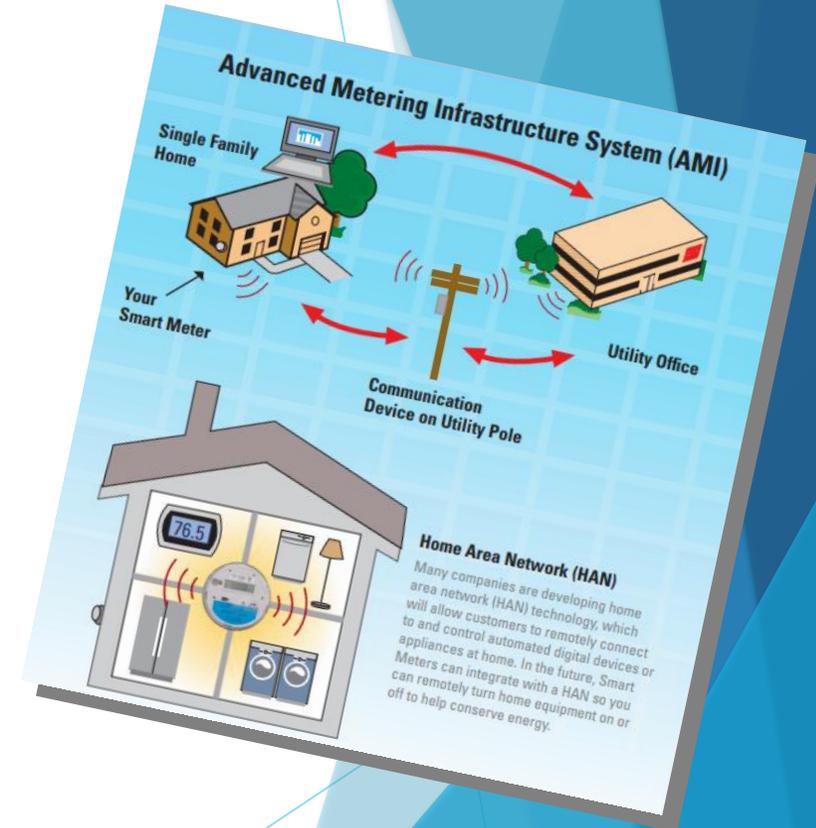
Nearly everyone is overexposed to man-made Electromagnetic Fields (EMFs) today, especially wireless communication signals. Many have reported ill-health since soon after a utility 'smart meter upgrade' to their home. Whether such devices are inherently injurious, and the straw that breaks the camel's back, or are only acutely injurious to some people and not others, both anecdotal and published evidence suggest it may be all three, as well as having chronic effect on everyone. Before a pre-person symptom checklist may help alert you to early signs of health decline in your household. Such symptoms occur at other times, too, but their sudden arrival within weeks after installation of a 'smart' meter is suggestive.

Author/Disclaimer: Kim Garner, Certified Building Biologist, BioEnergy@gmail.com, Massachusetts (USA). Last updated: 01/24/25

Symptom	New Onset or Worsening ? - Parenthesis, ? - New ? - Worsening, ? - Improving	Very Common Category					Symptom	New Onset or Worsening ? - Parenthesis, ? - New ? - Worsening, ? - Improving	Very Common Category					
		1	2	3	4	5			1	2	3	4	5	
Blood Pressure (Elevated or Low)	✓						Weight Gain/Loss, Appetite Issues							
Heart Palpitations	✓						Condition: ADHD/ADD/Autism							
Heart Racing	✓						Dependancy: Mental Health							
Ear Ringing, Buzzing, Tinnitus	✓						Loss Desire/Will to Live							
Eye Pain, Vision, Cataracts	✓						Mood Swings							
Nausea, Vomiting	✓						Nightmares							
Fatigue, Exhaustion, Stress	✓						Paranoia							
Anxiety, Agitation	✓						Physical Aggression							
Irritability, Bickering, Arguing	✓						Self-Harm, Suicide Attempt							
Insomnia, Sleeplessness	✓						Sudden Crying, Weeping							
Involuntary Muscle Contractions	✓						Targeted Individual Feeling							
Leg Cramps, esp. in Bed	✓						Condition: EMS, Electrical Sens.							
Brain Fog, Lack of Concentration	✓						Condition: Fibromyalgia/ME/CFS							
Dizziness, Disorientation, Vertigo	✓						Condition: MCS, Chemical Sens.							
Head Pressure, Heat, Piercing Pain	✓						Emergency Room Visits							
Headache, Migraine	✓						Hair Loss, Sudden Whitening							
Nerve Damage, Shooting Pain	✓						Sensitivity to Electrical Devices							
Numbness, esp. in Hands/Feet	✓						Signs of 'Sudden Aging'							
Short Term Memory Loss	✓						Sudden 'Wake-up in Early AM							
Respiratory Problems	✓						Body Vibrating, Trembling							
Tingling, Burning, Itching Skin	✓						Muscle Weakness							
Mosebleeds	✓						Tightness in Chest							
Condition: Cancer/Tumors							Condition: Alzheimer's/Dementia							
Condition: Heart Attack/Stroke							Condition: Parkinson's							
Dehydration, Thirst, Sore Throat							Condition: Seizure/Epilepsy							
Digestive Problems, Acid Reflux							Hearing Electricity/Devices							
Condition: Lupus/MS/Autoimmune							Long Term Memory, Recall Issues							
Condition: MCS, Mast Cell							Loss of Consciousness							
Flu-Like Symptoms, Fevers							Loss of Motor Skills							
Accurate Infections							Restless, Fidget, Nervous Energy							
Lifestyle: Can No Longer Drive Car							Tingling, Burning (Internal)							
Lifestyle: Divorce, Job Loss							Word Substitution in Speech							
Lifestyle: Loss of Agency							Sinus Infections, Breathing Issues							
Lifestyle: Too ill to Work							Infertility, Low Libido							
Blood Sugar (Elevated or Low)							Pregnancy Issues, Miscarriage							
Condition: Diabetes							Urinary Issues							
Infant Failure to Thrive							Skin Outbreaks, Dry, Discolored							
Organ Stress/Burnout/Failure							Swollen Face, Joints, Extremities							
Temperature Dysregulation														

What's Happening in the Home?

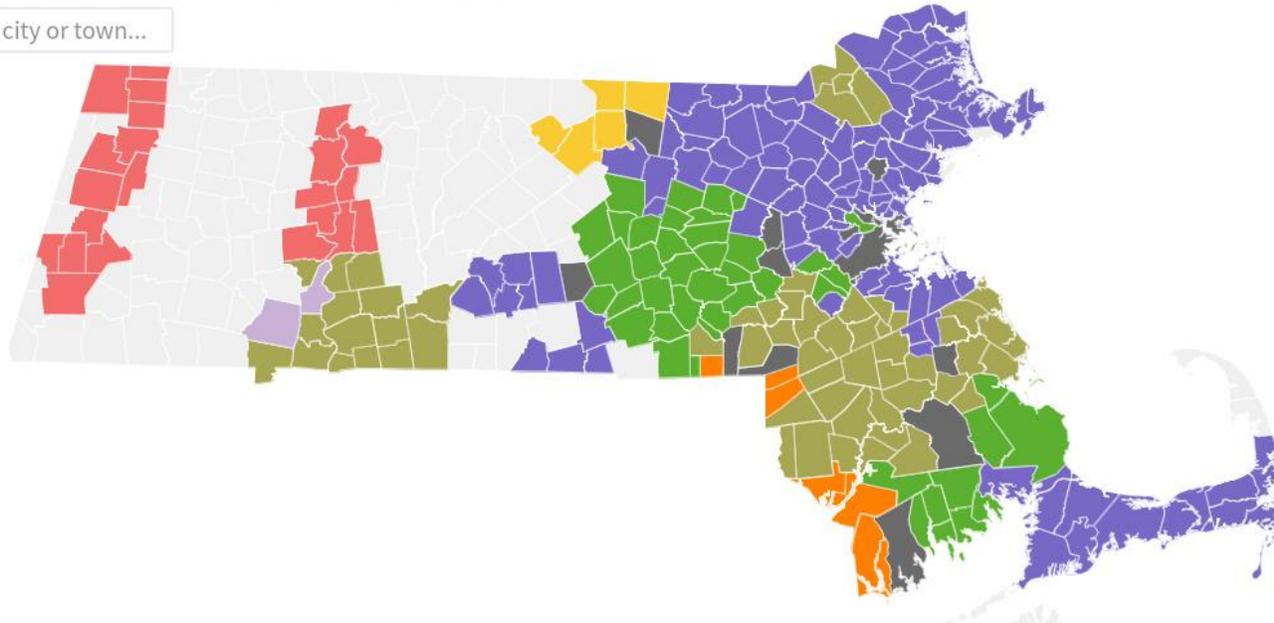
- Strong man-made Radio Frequency emanations, varying from as low as a few times per day, up to many **thousands of times per day**. (Water, Gas, Electric)
- High agitation on house electrical wiring from '**Dirty Electricity**' created by electronic electrical meter (Electric)
- Impressed low frequency '**noise**' added to house electrical wiring to support PLC/BPL on-the-wire notification (Unutil Electrical)
- **Audio hum/buzz** from vibrating components (Electric) - microwave hearing



MA: 10 Different Gas Providers

■ Berkshire Gas ■ Eversource Energy (EGMA) ■ Eversource Energy (NSTAR Gas) ■ Liberty Utilities ■ Multiple Providers ■ Municipal
■ National Grid (Boston Gas) ■ No Natural Gas Service ■ Unitil (Fitchburg Gas & Electric)

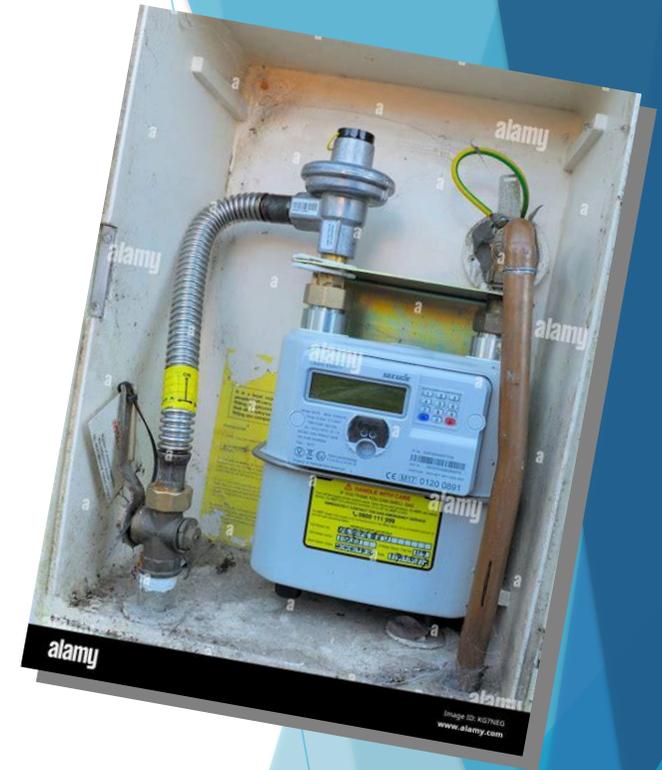
🔍 Search by city or town...



Berkshire Gas
Eversource Energy (EGMA)
Eversource Energy (NSTAR Gas)
Holyoke Gas & Electric Department

Liberty Utilities
Middleborough Gas and Electric Department
National Grid (Boston Gas)
Unitil (Fitchburg Gas & Electric)

Wakefield Municipal Light Department
Westfield Gas and Electric Light Department



MA: 45 Different Electric Companies

Ashburnham Municipal Light Plant
Belmont Municipal Light Department
Boylston Municipal Light Department
Braintree Electric Light Department
Chester Municipal Electric Light
Department
Chicopee Municipal Lighting Plant
Company Name
Concord Municipal Light Plant
Danvers Electric Division
Eversource Energy (NSTAR Electric)
Georgetown Municipal Light
Department
Gosnold Electric Light
Groton Electric Light Department
Groveland Municipal Light Department
Hingham Municipal Light Plant
Holden Municipal Light Department

Holyoke Gas & Electric Department
Hudson Light and Power Department
Hull Municipal Lighting Plant
Ipswich Municipal Light Department
Littleton Electric Light & Water
Department
Mansfield Municipal Electric
Department
Marblehead Municipal Light
Department
Merrimac Municipal Light Department
Middleborough Gas and Electric
Department
Middleton Municipal Light Department
National Grid (Massachusetts Electric)
National Grid (Nantucket Electric)
North Attleborough Electric Department
Norwood Municipal Light Department

Paxton Municipal Light Department
Peabody Municipal Light Plant
Princeton Municipal Light Department
Reading Municipal Light Department
Rowley Municipal Lighting Plant
Russell Municipal Lighting Company
Shrewsbury Electric and Cable
Operations
South Hadley Electric Light Department
Sterling Municipal Light Department
Taunton Municipal Lighting Plant
Templeton Municipal Lighting Plant
Unitil (Fitchburg Gas & Electric)
Wakefield Municipal Light Department
Wellesley Municipal Light Plant
West Boylston Municipal Lighting Plant
Westfield Gas and Electric Light
Department



MA: >300 Water Authority Districts

ABINGTON
ACTON
ACUSHNET
ADAMS
AGAWAM
AMESBURY
AMHERST
ANDOVER
ARLINGTON
ASHBURNHAM
ASHBY
ASHFIELD
ASHLAND
ATHOL
ATTLEBORO
AUBURN
AVON
AYER
BARNSTABLE
BARRE
BECKET
BEDFORD
BELCHERTOWN
BELLINGHAM
BELMONT
BERKLEY
BERLIN
BERNARDSTON
BEVERLY
BILLERICA
BLACKSTONE
BLANDFORD
BOLTON
BOSTON
BOURNE
BOXBOROUGH
BOXFORD
BOYLSTON
BRAintree
BREWSTER
BRIDGEWATER

BRIMFIELD
BROCKTON
BROOKFIELD
BROOKLINE
BUCKLAND
BURLINGTON
CAMBRIDGE
CANTON
CARLISLE
CARVER
CHARLEMONT
CHATHAM
CHELMSFORD
CHELSEA
CHESHIRE
CHESTER
CHESTERFIELD
CHICOPEE
CHILMARK
CLARKSBURG
CLINTON
COHASSET
COLRAIN
CONCORD
CONWAY
CUMMINGTON
DALTON
DANVERS
DARTMOUTH
DEDHAM
DEERFIELD
DENNIS
DIGHTON
DOUGLAS
DOVER
DRACUT
DUDLEY
DUNSTABLE
DUXBURY
EAST BRIDGEWATER
EAST BROOKFIELD

EASTHAM
EASTHAMPTON
EAST LONGMEADOW
EASTON
EDGARTOWN
EGREMONT
ERVING
ESSEX
EVERETT
FAIRHAVEN
FALL RIVER
FALMOUTH
FITCHBURG
FLORIDA
FOXBOROUGH
FRAMINGHAM
FRANKLIN
FREETOWN
GARDNER
GEORGETOWN
GILL
GLOUCESTER
GOSNOLD
GRAFTON
GRANBY
GRANVILLE
GREAT BARRINGTON
GREENFIELD
GROTON
GROVELAND
HADLEY
HALIFAX
HAMILTON
HAMPDEN
HANCOCK
HANOVER
HANSON
HARDWICK
HARVARD
HARWICH
HATFIELD

HAVERHILL
HEATH
HINGHAM
HINSDALE
HOLBROOK
HOLDEN
HOLLAND
HOLLISTON
HOLYOKE
HOPEDALE
HOPKINTON
HUBBARDSTON
HUDSON
HUNTINGTON
IPSWICH
KINGSTON
LAKEVILLE
LANCASTER
LANESBOROUGH
LAWRENCE
LEE
LEICESTER
LENOX
LEOMINSTER
LEVERETT
LEXINGTON
LINCOLN
LITTLETON
LONGMEADOW
LOWELL
LUDLOW
LUNENBURG
LYNN
LYNNFIELD
MALDEN
MANCHESTER
MANSFIELD
MARBLEHEAD
MARION
MARLBOROUGH
MARSHFIELD

MASHPEE
MATTAPOISETT
MAYNARD
MEDFIELD
MEDFORD
MEDWAY
MELROSE
MENDON
MERRIMAC
METHUEN
MIDDLEBOROUGH
MIDDLETON
MILFORD
MILLIS
MILLVILLE
MILTON
MONROE
MONSON
MONTAGUE
MONTGOMERY
NAHANT
NANTUCKET
NATICK
NEEDHAM
NEW BEDFORD
NEW BRAintree
NEWBURY
NEWBURYPORT
NEW MARLBOROUGH
NEW SALEM
NEWTON
NORFOLK
NORTH ADAMS
NORTHAMPTON
NORTH ANDOVER
NORTH ATTLEBOROUGH
NORTHBOROUGH
NORTHBRIDGE
NORTH BROOKFIELD
NORTHFIELD
NORTH READING

NORTON
NORWELL
NORWOOD
OAK BLUFFS
ORANGE
ORLEANS
OTIS
PALMER
PAXTON
PEABODY
PEMBROKE
PEPPERELL
PETERSHAM
PHILLIPSTON
PITTSFIELD
PLAINVILLE
PLYMOUTH
PLYMPTON
PRINCETON
PROVINCETOWN
QUINCY
RANDOLPH
RAYNHAM
READING
REHOBOTH
REVERE
RICHMOND
ROCHESTER
ROCKPORT
ROWE
ROWLEY
ROYALSTON
RUSSELL
RUTLAND
SALEM
SALISBURY
SANDWICH
SAUGUS
SAVOY
SCITUATE
SEEKONK

SHARON
SHELburne
SHERBORN
SHIRLEY
SHREWSBURY
SHUTESBURY
SOMERSET
SOMERVILLE
SOUTHAMPTON
SOUTHBOROUGH
SOUTHBRIDGE
SOUTH HADLEY
SOUTHWICK
SPENCER
SPRINGFIELD
STERLING
STOCKBRIDGE
STONEHAM
STOUGHTON
STOW
STURBRIDGE
SUDBURY
SUNDERLAND
SUTTON
SWAMPSCOTT
SWANSEA
TAUNTON
TEMPLETON
TEWKSBURY
TISBURY
TOPSFIELD
TOWNSEND
TRURO
TYNGSBOROUGH
UPTON
UXBRIDGE
WAKEFIELD
WALES
WALPOLE
WALTHAM
WARE

WAREHAM
WARREN
WARWICK
WATERWATER
WAYLAND
WEBSTER
WELLESLEY
WELLFLEET
WENDELL
WENHAM
WESTBOROUGH
WEST BOYLSTON
WEST BRIDGEWATER
WEST BROOKFIELD
WESTFIELD
WESTFORD
WESTHAMPTON
WESTMINSTER
WEST NEWBURY
WESTON
WESTPORT
WEST SPRINGFIELD
WEST STOCKBRIDGE
WEYMOUTH
WHATELY
WHITMAN
WILBRAHAM
WILLIAMSBURG
WILLIAMSTOWN
WILMINGTON
WINCHENDON
WINCHESTER
WINTHROP
WOBURN
WORCESTER
WORTHINGTON
WRENTHAM
YARMOUTH



Myriad Meter Models Are Fielded

- There are many different vendor-technology combinations. There is **no central registry**.
- **Each Utility is effectively a monopoly.** If you cannot work within their rules, they have been known to cut off access to gas, electricity or water.
- Documentation about each selected meter is **withheld from public scrutiny**, [per corporate secrecy policy](#):

Landis+Gyr Technology, Inc. respectfully requests confidentiality of certain materials provided with the submission of the Series 6 MCM0 under FCC ID: R7PNG0R1X8 in accordance with FCC Regulations 0.459. The confidentiality request applies to the System Block Diagram, Schematics, Parts List, and Theory of Operation contained in this filing.

Series 6 MCM0 has been developed at considerable effort and expense by Landis+Gyr Technology, Inc. These items are considered as Trade Secrets and therefore public access to the proprietary material could possibly result in duplication of equipment that could severely damage the company's business advantage.

What Can We Do?

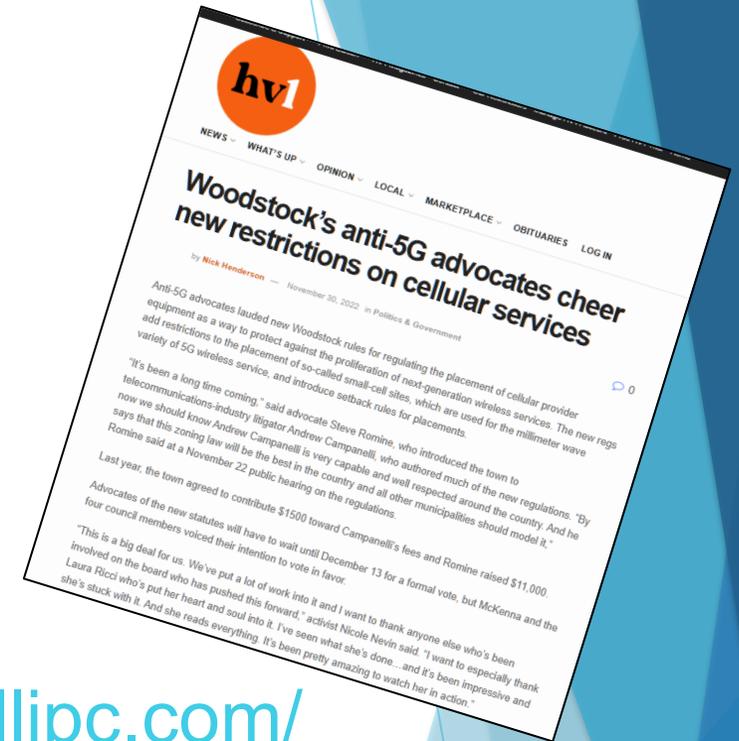
- Do nothing, keep vigilant for signs/symptoms.
(See [Ken's Handout](#))
- Do not use bedroom adjacent to broadcasting meters (consider bed canopy)
- Ask Utility whether a safer 'opt-out' meter is available, aim for not radiating
- Ask Utility whether they can relocate any broadcast antenna
- Ask Utility if you can upload a monthly photo of reading
- Surround/redirect/shield antennas to protect living space
- Consider weaning from natural gas use, thus no gas meter
- Consider drilling a well, thus no water meter
- Move electric meter to pedestal in the yard (facing away)
- Reduce 'dirty electricity' exposure from main electrical service (gas and water meters don't connect to house's wiring)

UNFORTUNATELY - For Apartment Dwellers, there are fewer options, bank of meters



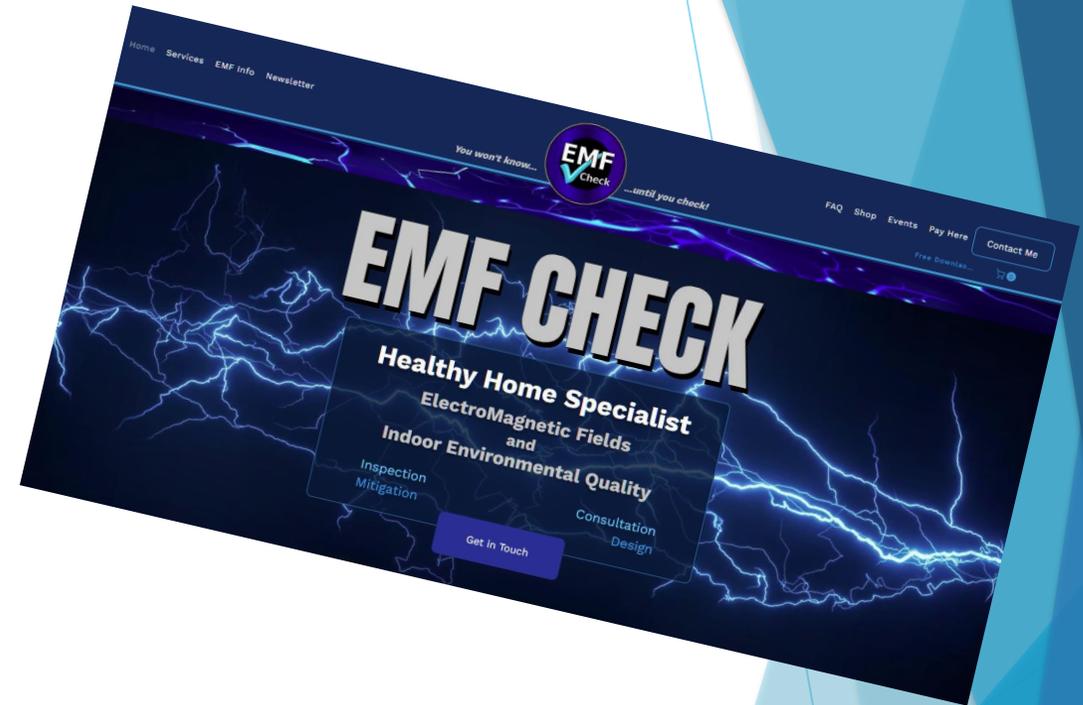
Local Successes

- Woodstock, NY
 - [Lawsuit](#) for analog opt-out
 - [Updated zoning code](#) for protections from cell towers, 5G small cells
- Andrew Campanelli, Esq.: <https://campanellipc.com/>
- Stop 5G Community Empowerment Consulting: <https://www.stop5g.org/community-empowerment-consulting>



Thank You!

- ▶ Rex Funk, Electromagnetic Radiation Specialist
- ▶ emfcheck.com
- ▶ 845-853-6060
- ▶ Building Health LLC



Questions?

