### DPU Listening Session MA DPU 20-69 November 20, 2020

Submission of Patricia Burke

# Thank you

### Slide 2

# Independent Research

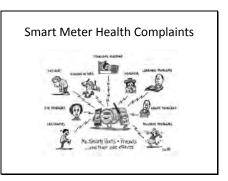
"Smart meters have repeatedly been found to be the single most common trigger of new onset electrosensitivity

(non ionizing radiation sensitivity),
which can devastate the lives of those affected
and has done so for many. "
- Dr. Beatrice Golumb, EHS researcher
renowned for her work w/ Gulf War Syndrome

" Smart meters have repeatedly been found

to be the single most common trigger of new onset electrosensitivity

# Slide 3



Courtesy EMF Safety Network. Many initial complaints came from Maine and California, 2 states where AMI meters were first deployed about 10 years ago

### **Human Rights, Internationally**

Other countries are already recognizing the need to protect residents with EHS from exposures sourced from smart meters.

And awareness of the RF/EMF issue is growing, around the world

### Slide 5



There have been decisions in smaller jurisdictions to honor requests for accommodation, without question, while other decision makers have been non-responsive. In MA, in one town the administrator allowed the customer to cut the wire to the transmitter, while in another town they cut off the water supply to the customer for not accepting a transmitting meter, even though she had recommendations from several physicians. Human rights protections are needed.



# Is AMI the Path Forward?

Some utilities are implying that smart meter installations are increasing, and that the industry is moving towards AMI.

Does it depend on who you ask?

### Slide 8



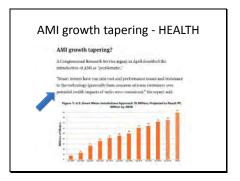




# Slide 11







"Smart meters have run into cost and performance issues and resistance to the technology (generally from concerns of some customers over potential **health impacts** of radio wave emissions)," the report said.

### Slide 14

# If Opt out, Analog vs. Radio Off?

"There are no analogs available" "They don't make them anymore" "The industry is moving towards AMI"

# Slide 15



Are analogues available? It depends on who you ask. NV is providing NEW analogs as the opt out meter

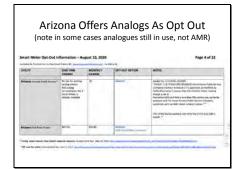
### **Opt Out Surcharges?**

If Massachusetts chooses AMI as the path forward, despite on-going unaddressed concerns, would customers have the right *not* to have the AMI or RF-emitting meter installed?

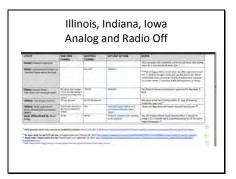
Would they be surcharged to opt out? How much? Should customers who require medical accommodation be surcharged?

What additional mitigation would be required to protect health-vulnerable residents and who would pay?

### Slide 17



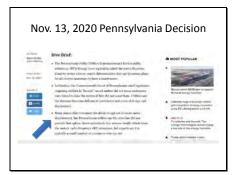
(Many other jurisdictions have true analogue meters still in service, unlike MA where AMR is widespread. Many ratepayers in MA have no idea what kind of meter they have or whether or not it transmits.





Court decision just this month giving right to opt out Billions of investment at risk

# Slide 20







### Slide 23



The requirement for a notarized Dr's note has proven extremely burdensome for consumers; Some early opt out fees were excessive and punitive, the trend is diminishing

# Slide 24



Utilities and utility regulators would be demonstrating tremendous foresight by becoming educated by non-industry and leading edge researchers who are actually working with patients



There are 2 issues; power quality and RF exposure. Many health conditions appear to be impacted. Responsible decision making would require determining what percentage of MA residents may need to be accommodated (Lyme, MS, cancer, fertility, neurodegenerative)

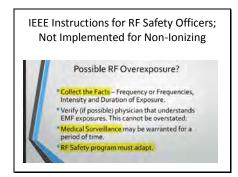
### Slide 26

# No Monitoring or Investigation

The United States did not conduct an investigation of illnesses and emerging health complaints in the (unquantified) portion of the population who became sick or disabled or whose adverse health condition was exacerbated by the introduction of next-generation wireless smart utility meters.

Financial considerations are being prioritized over human health and environmental concerns.

### Slide 27



We used to assume that ionizing radiation was also harmless, until it wasn't



If the DPU does not have investigative expertise or responsibility, who does?

# Slide 29

"We have very serious ethical questions we need to ask. Is my need to talk to anyone, anywhere, more important than a child's need to talk at all in a lifetime?" - Dr. Toryl Jelter re: Autism and EMF

Is the utility company's "need" to transmit to and from every connection to the grid 24/7/365 more important than resident's sleep, heart rate, and brain function? What agency in MA is responsible for receiving and investigating complaints, for example, puretone noise violations and microwave hearing that disturbs sleep, thereby impairing immunity?

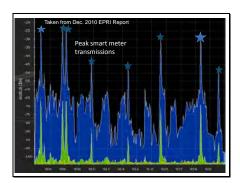
# Slide 30

Let's Ask a Tobacco Scientist!
Let's Use the Tobacco Industry
Playbook! It Still Works!

People reporting injury; "field testing" by engineers reading measurements against theoretical standards, with a device that does not measure peaks



### Slide 32



The intensity of the emissions is much stronger than what the utilities and the FCC admit. The actual peak (the stars) is 10,000 times the average measurement that the utility reports (the green spikes).

# Slide 33

"Mean Root Squared" Tobacco Science

- Is akin to comparing a sledgehammer and a hammer
- Is similar to saying that a strobe light shines less light, because is it going off and on (the meters only transmit 2% of the time)
- Is like saying that the average height of a tree in the forest is 1 ft. because you measure all the space as well as the trees and average the readings

The cell walls and blood brain barrier don't take an average of the transmissions

Slide 34



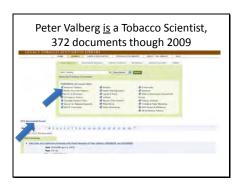
# Field testing the meters

### Slide 35



This is similar to the equipment that is used to answer the question of whether smart meters are safe.

# Slide 36



And now there are even more submissions by Peter Valberg about tobacco, and how victims should not be compensated for injury, illness, and deaths. When second hand smoke was finally implicated by a Japanes researcher in cancer rates in widows of smokers, the tide turned. Second hand RF????



And there are more testimonials from Peter Valberg, also working for the wireless industry interests

# Slide 38



And there are more

# Slide 39



Once a document is introduced in one proceeding it makes its way to other proceedings. This has implications with MA DPU 12-76-B



# Slide 41



We have an entire industry built on the opinion of several mercenary scientists.



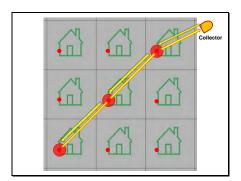
### Opt Outs?

Opting out from a smart meter doesn't protect health-vulnerable residents in multi-family housing, or from neighboring meters, or in densely settled neighborhoods.

Additional shielding and mitigation is necessary. Is an opt out the equivalent of low tar and nicotine cigarettes?

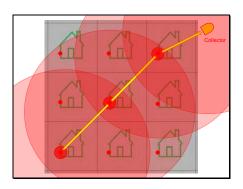
We shouldn't be surprised if this is the case, because the smart meter paradigm is based on the opinion of leading tobacco scientists.

# Slide 44

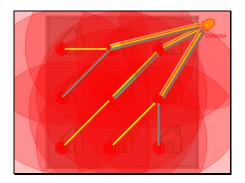


The meters pass data from one house to another, and can take many different paths.

# Slide 45



The globe of radiation emitted spreads in all directions. Where the globes overlap, there is a "hot spot" of higher-than-expected radiation.



Simultaneous transmissions overlap, creating a cloud of radiation, sometimes called 'electrosmog'. The houses closest to the collector are relaying almost constantly, generating the most radiation.

### Slide 47

# Are there health concerns with powerline communication? (is this Unit!) smart Meter (eiwellspring.org) Who monitors? \*\*Grant All Stripe Plant passes Who is a smart Meter (eiwellspring.org) Who monitors? \*\*Grant All Stripe Plant passes \*\*Grant All Strip

If consumers and their health care providers are not cognizant of changes in the delivery of their electricity, symptoms may be attributed to other causes. Many physicians are not yet trained to recognize EHS, and like the tobacco wars, when Drs recommended cigarettes to their patients for a sore throat, telehealth connectivity is being valued without questioning if the benefits can be achieved via hardwired connections, and not 5G and wireless.

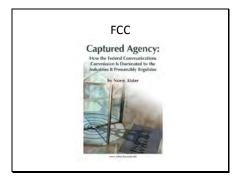
# Slide 48

### If We Don't Investigate, We Won't Know

Or, determine if the grid is acting as an unintentional antenna for frequencies from other sources such as weather and satellite communications, and call on the FCC to take action?

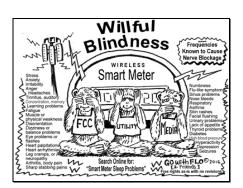
Or, is it the combination of frequencies from water meters, gas meters, electric meters, and connected devices in the home that has brought some to the breaking point?

Again, Smart meters have repeatedly been found to be the single most common trigger of new onset electrosensitivity, by independent researchers who are not tobacco scientists.



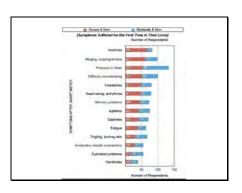
It appears that regulatory capture is operating at many levels. When it is in place at a federal level, it is up to other responsible decision makers the challenge corruption and suppression of legitimate science.

Slide 50

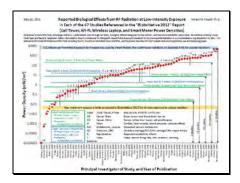


Courtesy Flo Freshman

Slide 51



Symptoms Resulting from Exposure to Smart Meters | Smart Grid Awareness



# Slide 53

### WHAT UTILITIES USUALLY TELL THE PUBLIC

- 1. Smart Meters are low power, therefore, not harmful
- 2. Smart Meters emit less RF Radiation than cell phones
- 3. Smart Meter emissions are a fraction of FCC Guidelines
- 4. Smart Meters transmit 4-6 times a day for 45-78 seconds
- 5. Smart Meters only record total usage like analog meters
- 6. Smart Meters do not cause fires or "fry" electronics
- 7. Smart Meter RF Radiation does not pose a health risk
- 8. Smart Meter studies show no evidence of harm to health
- 9. Smart Meters are safe to install on homes and schools: WHO 2B Carcinogenic label only applies to cell phones

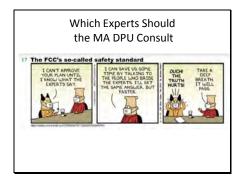
# Slide 54

How many times a PG&E smart meter transmits in 24 hours — court order was required to obtain data

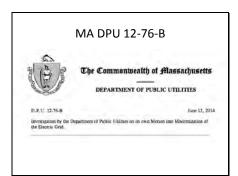
TABLE 2-1

Electric System
Message Type
Climater Read Data
Meter Read Data

Depending on where in the network a house is located (how close to a collector) will affect how often the meter transmits. Those closest in a large network will experience transmissions near the max; those further away will be more average. The point is, while a meter sends its OWN data six times per day, it is sending SOMETHING 10,000 times or more per day.



# Slide 56



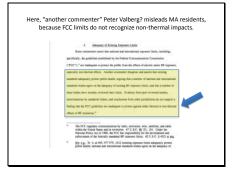
Business as usual in MA, or not?

# Slide 57

### MA DPU 12-76-B; Inaccurate, Fraudulent, or Negligent in Advancing Corrupt Science

MA DPU order 12-76-B contains the inaccurate, misleading not-science-based implication that FCC limits protect against both thermal and non-thermal impacts of radio frequency exposure, possibly introduced by tobacco scientist Peter Valberg of the product defense firm Gradient, working in concert with the DPU.

If a misunderstanding or misrepresentation or misinterpretation, the DPU can act, as the Lt Gov of Texas did when he learned about the corruption behind the Texas smart meter health report also referenced in MA. Or intentional by the industry and its partners?



When researchers obtained evidence of who knew what when regarding wrongdoing by Monsanto, it was important to uncover the paper trail to assign liability. DPU 12-76B represents a significant step in the campaign to corrupt the science. Citizens have been left to create a paper trail. The DPU can take action on a federal level to correct this.

# Slide 59

### FCC limits are thermal only

- 2002 EPA to Jane Newton of EMR POLICY INSTITUTE
- "The FCC's current exposure guidelines, as well as those of the Institute of Electrical and Electronics Engineers (IEEE) and the International Commission on Non-Ionizing Radiation protection, are thermally based, and do not apply to chronic, non thermal exposure situations".

If the entire DPU is not cognizant of the distinction between thermal and non-thermal impacts of RF exposure, ratepayers are not served or protected by competent regulators. The DPU should seek clarification about the origin and legitimacy of this issue.

# Slide 60

# FCC does <u>not</u> protect against non-thermal impacts of RF

or all materiesms in the justified.

These guidables are less for following of the actions or effect found of further per bilingues (USA); both weight. This fulfile was find the following in the requirement for following some expression for formed and both objects and the contract of t

An interest of the contract of

When an error of this magnitude is created, is it and error, incompetence or corruption? How it is addressed once identified provides clarity.

Where did inaccurate MA DPU claim about the FCC guidelines come from?

The claim that "another commenter" implied that the FCC exposure limits encompass protection against non-thermal impacts is not confirmed by the transcript of the testimony by Peter Valberg, nor did he provide references that appear in DPU 12-76-B. If Valberg did not participate behind the scenes in adding inaccuracies to 12-76-B, it came from the MA DPU.

Why did the DPU identify other testifiers (MACI, etc) but revert to the term "another commenter" and not clearly identify Peter Valberg of Gradient as the only testifier on the health panel seated to dismiss citizen and expert testimony in docket 12-76=B? Because apparently they thought they could?

### Slide 62



Who paid Dr Valberg and how much was he paid. How much money have MA ratepayers paid to Valberg and Gradient over the years to ""sign off" against citizen health and environmental issues?

# Slide 63

Peter Valberg's WHO Fact Sheet #193

"Summary Conclusions" Image from Video Clip

The WHO "Fact Sheet" #193 is misleading to the public in that it fails to acknowledge:

(1) the limited evidence that clearly exists for adverse health effects being associated with RF exposure that warrants a precautionary approach; and

(2) the IARC 2B classification applies to RF emissions from all types of devices, not just "mobile phones."

For an in-depth presentation of other serious RF exposure issues, watch the complete documentary from

During the hearing, Peter Valberg claimed that research demonstrating harm due to RF exposure could not be reproduced.

Janet Newton of the EMR Policy Institute explained to the DPU how the confounding research was manipulated.

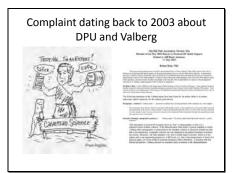
Peter Valberg attempted to sway the DPU that the 2B classification was only for cellphones. Again, is the DPU expert enough to know the science, or not? If not, how can that be corrected?

Slide 64



Peter Valberg and Gradient, based in Cambridge, sign off on health concerns for many utility concerns, and have been doing it for years in MA, not just for smart meters.

### Slide 65



From Oak Hill Park in Newton, 2003

# Slide 66



Peter Valberg is still a tobacco scientist, and was an expert witness in this case in 2014 concerning light cigarettes, the same week he was seated in Boston to discount testimony from Jean Lemieux of MA Asso. for Chemically Injured, Dr. Lisa Nagy, Nutritionist Thea Fournier, and others.

# Peter Valberg, Product Defense for the Industry and the MA DPU?

"They profit by helping corporations minimize public health and environmental protection and fight claims of injury and illness. In field after field, year after year, this same handful of individuals and companies comes up again and again... They have on their payrolls for can bring in on a moment's notice! Toxicologists, epidemiologists, biostatisticians, risk assessors, and any other professionally trained, media-asvy experts deemed through the mentions we expect of the sclentfile enterprise, satiline the literature with their questionable reports and studies. Nevertheless, it is all a charade. The work has one overriding motivation: advocacy for the sponsor's position in civil court, the court of public opinion, and the regulatory arena lythere these studies benefit their sponsors jon the cause they are good work machinery and slow down the process. Public health interests are beside the point. Follow the science wherever it leads? Not quite. This is science for hire, period, and it is extremely lucrative."

Are consumers wasting their time testifying before public utility commissions who have agreed to accept compromised testimony as truth?

# Slide 68

# Not as "Safe" as Claimed Half Truth Whole Truth

Far below limit of	Bioeffects at
600uW/cm2	0.002 -10uW/cm2
Ave of 9uW/cm2	Peak is 100,000 to
over 30 mins.	1 mil X's backgrnd
Using faulty numbers	sm mtr 100 X's
& approach	cell phone
Only "on" a few	Transmits every 1/2
mins/day in total	to every 9 secs.
	600uW/cm2 Ave of 9uW/cm2 over 30 mins. Using faulty numbers & approach Only "on" a few

Instead of continuing to test the devices against theoretical engineering measurements, we need to pay heed to what is happening to customers when exposed to the technology. Who is going to have enough integrity to do this?

# Slide 69

### Don't Ask Don't Tell?



# 2019; Navigant AMI Gold Standards report: Other Meter Concerns NAVIGANT AMI Gold Standards Report An Assessment of the Street Elicide Milering Lambscape Hallmard 63,893

### Consulting Firm late 2019 Report

# Slide 71

# Navigant: Smart Meters and Denial of Service Hacking Risk

White physical attacks are less likely given embedded protection mechanisms, there is still potential for attack if the internal serial links lack sufficient protection and a common protocol is employed. Software-based attacks are hypically the crux of concern for vendors, utilities, and government regulators.

Smart meters can theoretically be used to launch denial of service (DoS) attacks against AMI systems. This was evidenced in the January 2016 issue of the Journal of Network and Computer Applications, where the concept of a pupped stanck, which is a DoS attack propagated against smart meters using wireless mesh network, was introduced.

in worst case scenarios, cascading failures could possibly be created from compromised meters that then cause upstream failures in distribution, transmission, and even generation. However, such an attack would require that quite a few protections be deactivated in each grid.

# Slide 72

### Navigant: Security Risks Increase w/ AMI

one or two may be compromised without detection. There are security standards in place for meter deta. However, industry stakeholders have indicated a heightened awareness of the vulnerabilities and the need for proactive plans if or when breaches occur.

Utilities would be was to assume that their smart meters will be successfully stacked and plan accordingly. Smart meters are weak endpoints in large networks, placed in locations where attackers can take their time with developing approaches. They also can be purchased on the internet, so attack approaches can be developed offline before they are tried inside the AMI system.

Many smart meter vendors initially assumed that these systems did not need to be delete secure. The meter data was not particularly valuable to anyone other than the utility and the outsomers, and security efforts were focused on preventing energy that, However, with the advent of thoway control for remote connect and disconnect services and DR, smart metering systems offer new avenues for malicious (or even accidental) attacks to overall girld stability or widespread disruption and nuisence.

### AMI vs. AMR Safety and Security

As the meters become MORE intelligent, including the option for the remote on/off function, and/or any communication with devices in the home or on the premises, they become MORE, and not less, subject to hacking and other security concerns, as well as privacy.

For the industry, a blank check for security?

### Slide 74

# AMI Meter Lifespan vs. Planned Obsolescence

- In Canada, the Ontario Auditor General's report from 2014 stated: "The estimated useful life for a typical smart meter is 15 years, compared to 40 years for an analog meter. The distribution companies we consulted said the 15-year estimate is overly optimistic because smart meters ... will likely be obsolete by the time they are re-verified as required by the federal agency Measurement Canada every six to 10 years."
- Ontario Auditor General 2014 Report on the Smart Metering Initiative, available for review at https://kywisionsolutions.files.wordpress.com/2015/09/ontarioministry-of-energy-smart-meter-initiative-audit-report.pdf

What the manufacturers say vs. what really happens – what can MA build into its authorization to protect against obsolescence, including the possibility that the meters will be found to be harmful to health?

# Slide 75



Security Risks and Technology
Obsolescence Reduce Smart Meter
Expected Lifetimes | Smart Grid
Awareness

### Also, Carbon Footprint, E-Waste

- Smart tech's carbon footprint April 30th,
   Matthew Barton | The Ecologist
- "Smart technology has been promoted as 'green' because it can help monitor and reduce carbon emissions and achieve energy efficiencies. But is this the full nicture?
- The embedded energy costs of communication technologies and voracious digital consumption are actually exacerbating global heating rather than helping prevent it, the recent Shift Projec report, Lean ICT, Toward Digital Sobriety, suggests.
- The report recommends a shift from "Intemperance to sobiety in our relationship with digital technologies" - basically the idea that individuals and companies could self-limit their purchase and urage of equipment. But this clearly runs counter to the financial imperatives of the big tech companies and their marketing
- https://theecologist.org/2
  techr.carbon-footnriet
- E-waste has reached massive proportions worldwide July 6th 2020 | Daniel T Cross
- Sustainability limes

  "One of the lessons the current coronavirus
  pandemic has taught us is that we depend on
  electronic devices more than ever, not least
  during prolonged periods of self-isolation.
  Smartphones, laptops, television sets, e-readers
  refrigerators, air-conditioners they've all
- are replaced by newtor models. The answer: millions of electronic devices end up in the trash heap each year, adding to the already acute problem of each year, adding to the already acute problem of each year, adding to the already acute problem of the problem of the problem of the year problem of the year and year. The year the problem of the year and year than just few years go, according to a report by the Island Nations.
- https://www.sustainabilitytimes.com/environmental-protection/e-wast

And conflict mineral mining.
Clean energy is ignoring economic justice/environmental justice issues by outsourcing harm to impoverished nations.

### Slide 77



Unresolved issues regarding the pilot remain a massive environmental justice issue in Worcester, especially in the Tory Fort neighborhood.

### Slide 78

Data Driven Decision Making vs. Decision-Based Evidence Making

Did the Worcester National Grid smart meter pilot program demonstrate clearly to the public the danger of utilities and decision makers with access to the data from smart meters using it fraudulently to support a pre-determined outcome? Yes. Shouldn't the DPU complete all of the unresolved dockets regarding the Worc. Pilot before considering more customer facing grid modernization plans? Including an audit and correction of the results reporting?



There is a smart meter behind the rose bush. The water tower above the neighborhood is laden with antennas. Which direction is the two way communication between the meter and the collector traveling? The plants are telling us.

### Slide 80

### Distorting Science in Worcester

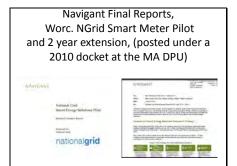
Manufactured consent
Creating research to fit one's needs
Concealing unwelcomed information
Assembling an expert group to advance a
favored outcome "blue ribbon panel"
Manipulating public perception about credible
science

"Bending Science"

# Slide 81



The Worc Board and Health, Assessor, and many elected officials bought into the pilot long before the residents even knew about it. There was NO advocacy for citizen or community rights.



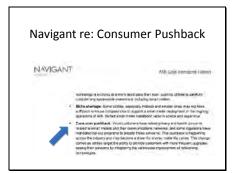
Do the reports constitute accounting fraud?

### Slide 83

# Who is Navigant? Industry Smart Meter Agenda Protection, since 2010 • (Note: this "third party" report was conducted by Navigant. The EMF Safety Network discovered a 2010 document in which Navigant was identified as a 7/30/2010 11:18:26 AM. To Lobey. 7/30/2010 11:18 AM. 7/30

Navigant and Structure were "putting out fires" for the smart meter agenda from the start, and let's not even talk about the fires here. But see testimony from Nina Beety submitted for this docket 20-69

# Slide 84



In 2005, Navigant was accused of overcharging Los Angeles County in a contract to work at Martin Luther King Jr.-Harbor Hospital in Willowbrook, CA. County auditors rejected over \$206,000 in expenses, including unauthorized first-class airfares to and from Los Angeles, and determined that Navigant had deleted from their to-do list a number of tasks and goals that they had failed to accomplish. [4] Despite Navigant's work, King-Harbor failed to meet federal standards for Medicare funding in 2006, [5] - wikipedia

### AMI planned obsolescenceblaming educated consumers, (a utility's worst customer)

- Navigant claims that customer pushback is driving shorter smart meter life cycles, and that the industry is responding with more frequent upgrades to ease customer concerns.
- AMI planned obsolescence has not addressed any concerns about security, safety, cost, health, environment, privacy, human rights, community rights, or green-washing concerns. The newer meters are worse in every regard, with planned obsolescence and increased surveillance capability.

Navigant is also creating analysis for other grid modernization projects for the MA DPU

### Slide 86

# Smoking Gun - Data is Gold

Miles Keogh, director of grants and research at the National Association of Regulatory Utility Commissioners (2015):

"I think the data is going to be worth a lot more than the commodity that's being consumed to generate the data."

(Politico, Smart grid powers up privacy worries, http://www.politico.com/story/2015/01/energy-electricitydata-use-113901.html#ixzz3Na2wSGtJ) Wireless technology to enable data monetization and surveillance should be separated from access to essential services

# Slide 87

### Smoking Gun - 1976

"If the more advanced nations of the West are strict in the enforcement of stringent exposure standards, there could be unfavorable effects on industrial output and military functions."

REPORT: DIA – Biological Effects of Electromagnetic Radiation (1976) |

### Human Rights, Non-consenting, Non-Benefitting Populations

Dr. Mallery-Blythe notes, "While reducing exposure [to RF-EMR] is a nice idea, to be honest, when it comes to children, it's a bit like giving them a low-tar cigarette. I don't think it's legally defensible in terms of proper protection for a group who is often times nonconsenting and not benefitting. ...For that group, we should be looking at complete withdrawal from radiofrequency emissions and minimizing ELF emissions in the places they habituate – in schools and public places and empowering parents to do this at home." ....including wireless utility meters

Many consumer groups may not benefit from time of use billing, but will be subjected to RF.

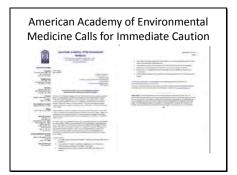
"Radiation without representation is tyranny." – Pam Steinberg, healthvulnerable Worc. resident

### Slide 89

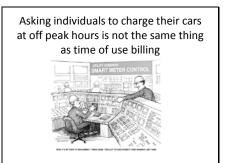


Many subgroups are not protected by inadequate RF exposure "theories"

# Slide 90



Physicians monitoring and treating patients over time observed the impact of wireless smart meter exposures.



The public has not been informed about the MA DPU's intentions about time of use billing, and the MA DPU has not considered the alternatives. <u>Getting</u> Smarter About the Smart Grid

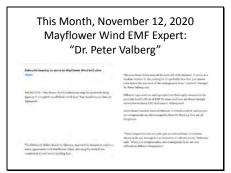
# Slide 92

### Recommendation 1

Historically, in order to address the damage caused by smoking, and to protect the public, the World Health Organization had to clear its ranks of infiltration by the tobacco industry.

Should the MA DPU, the MA Clean Energy Community, and the Legislature clear their ranks of corruption, and incorporate emerging, independent, non-industry science in policy decision-making, subject to public review, transparency, and accountability?

# Slide 93



How far is the DPU willing to go in continuing to authorize investments by referring to a tobacco scientist to sign off on all health and environmental concerns? What would the implication be of actually vetting projects honestly and responsibly for potential health and environmental impacts, and heeding complaints of harm in cooperation with the public?

### Recommendation 2

- The MA clean energy community should not hang its hat on the outcome of the appeal of the Pennsylvania smart meter court case, where customers have been given the right not to accept an AMI meter.
- Dike previous RF lawsuits, claims were preempted because conflict with the FCC's regulatory authority, and/or for economic reasons. This has nothing to do with whether the devices should carry consumer information about health risks, or whether they are safe.

  In addition, the surveillance capabilities of the meters and promise of monetization of data is influencing regulatory and legal decision-making.

Was MA DPU 12-76-B referenced in the PA case, or any other case? (The court did not feel that the complaintants proved that they have been injured by the meters. This worked for tobacco for while too.)

# Slide 95

### Recommendation 3

Recheck the research. Who decides whether the MA DPU could or should issue a retraction regarding both the scope of the FCC limits, and the results report for the Worcester National Grid smart meter pilot program. Who decides if the DPU should be subject to independent audit and investigation? The DPU? Is docket 12-76-B being used in other proceedings?

Does MA need to create another agency to represent residents, that is not beholden to the industry?

# Slide 96

### Who Stops Fraud? Everyone

Given the domination by the industry and industry insert for a comination by the industry and industry insiders analyzing the supposed benefits of smart meters and time-of-use-billing, the fraudulent data from Worcester ("98% retention rate") indicates to ratepayers that mistrust of industry assumptions and claims is warranted. There are many steps the DPU and MA utilities could take to restore public trust, including pausing the drive to AMI and clarifying the integrity of its assumptions and the data informing its choices. Massachusetts could build an reputation for integrity in energy policy.

### Recommendation 4

The DPU and MA Utilities could join Boston in challenging the FCC for failure to protect the public, the environment, investment, government, and commerce, especially in light of further easing of safety standards to accommodate 5G and the immediate threat of proximal wireless infrastructure, prior to any addition authorization for wireless investment

- Section 704 of the Telecom Act of 1996 especially needs to be addressed.  $\H$

The oral arguments for lawsuits pending against the FCC are scheduled for January 2021.

### Slide 98

### RF and EMF exposure is a much larger issue than smart meter and household wiring emissions.

- City of Boston, Massachusetts testimony to FCC on inadequacy of (theoretical) RF limits, which have NEVER been tested.
- "Boston believes that the concerns of the public are real and that the Commission has done a disservice to itself, local government, consumers, and even the wireless industry in failing to understand and respond to the broadly shared mistrust of the safety of RF emissions."

  Submissions to FCC on Human Exposure to 5G Higher Frequencies Docket 19-226- Environmental Health Trust

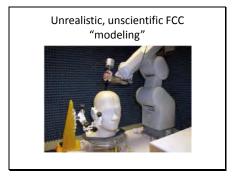
The utilities and DPU should ask whether the FCC has endangered the industry.

# Slide 99

### Boston to FCC

- "The City, and many of its constituents, do not believe the cursory way in which the Commission simply reaffirmed its decades old standards in 2019 was based on a robust review of the record and an updating of the science. And until the Commission appreciates the educational component of its role as the nation's RF monitor, local governments, like Boston, will continue to be stuck in the middle as residents consequences and properly the properly study of the middle as residents oppose wireless deployments for fear of the emissions, while the FCC and Congress have preempted local government review of RF standards."

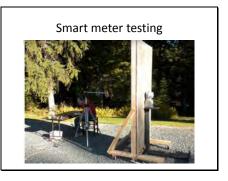
  City of Boston, Massachusetts Submission to FCC,
- Submissions to FCC on Human Exposure to 5G Higher Frequencies Docket 19-226- Environmental Health Trust [ehtrust.org]



# Slide 101



# Slide 102



This is a model used for testing the impact of a stucco house on smart meter transmissions.

### Recommendation 5

Should the DPU go back to the drawing board to look at grid modernization without time-of-use billing and wireless transmissions as the cornerstone, and focus instead on other alternatives including education and outreach regarding "shaving the peak," with investment decoupled from utility desire to monetize data and widespread citizen surveillance? Is time of use already an outdated approach due to many concerns, including security, privacy, surveillance, cost, green-washing, environment, and health?

### Slide 104

# Conclusion: Late Lessons from Early Warnings

"Clean energy policy" deserves and requires a sea change in Massachusetts and beyond. That means doing the difficult deep work to assess human health and environmental impacts, whether from close proximity to wind turbines or solar farms or telecommunications infrastructure, and clearing the regulatory agencies and political process of undue corporate infiltration and mercenary corruption of the science. Someone has to take the high road.

# Slide 105

### Citizen Science and Independent Science Is Far Ahead of Federal Regulation, and Can Assist



Before the DPU pursues two-way communication between utilities and consumer devices, MA energy policy needs two-way communication with all consumers, including the health-vulnerable and those already harmed.

### Slide 107

# Citizen Science and Independent Science Can Help

But every decision maker, and clean energy, conservation, and industry group must hold themselves accountable to seeking and speaking the truth, especially regarding human health and environment impacts, to avoid more late lessons from early warnings. Clean green energy is off the rails.

Thank you

Politicians also. If we are living through the equivalent of the tobacco wars, its time to choose sides.

