

## WHAT CAN/MUST I DO?

- Learn about 'smart' metering
- Talk to friends and family
- Educate your town officials
- Contact your local media
- Contact your state legislators
- Contact your local media
- If you have a 'smart' meter, call National Grid to remove it: 855-377-7627
- Write a letter to the editor
- Spearhead a moratorium in your area
- Join/donate to HaltMAsmartMeters.org
- Ask local cable to show HMSM videos
- Contact the Attorney General
- Sign the petition asking the MA Attorney General Coakley to "Investigate Worcester MA Smart Meter Pilot"



## RESOURCES

Access sourced flyer: [HaltMAsmartMeters.org/mg/](http://HaltMAsmartMeters.org/mg/) ~37

- [HaltMAsmartmeters.org](http://HaltMAsmartmeters.org) ~38
- [Takebackyourpower.net](http://Takebackyourpower.net) ~39
- [SmartGridAwareness.org](http://SmartGridAwareness.org) ~40
- [StopSmartMetersMassachusetts.org](http://StopSmartMetersMassachusetts.org) ~41
- [WccaTV.com/video/about-smart-meters](http://WccaTV.com/video/about-smart-meters) ~42
- [HaltMAsmartMeters.org/hmsm\\_Media/](http://HaltMAsmartMeters.org/hmsm_Media/) ~43

***"Activism is the rent I pay for living on this planet."*** ~44

~ Alice Walker

## **"How dumb do they think we are?"**

~ IL Attorney General Madigan, Chicago Tribune Op-Ed<sup>-1</sup>



**Pretty! Commonwealth of Massachusetts officials are working to mandate a \$7 Billion<sup>-2</sup> Advanced Metering Initiative (AMI) 'smart' meters despite clear and present dangers to:**

- ✓ Security
- ✓ Privacy
- ✓ Safety
- ✓ Health
- ✓ Wallet
- ✓ The Environment &
- ✓ Customer Choice

**NStar<sup>-3</sup> (January 2014):**

*There Is No Rational Basis for Department-Mandated Implementation of AMI.*

# WHAT IS 'SMART' METERING?

**AMI:** Advanced Metering Initiative so-called 'smart' meters:

- 1) Replace current electric meters (20+ years of 'life' left)<sup>-4</sup>
- 2) transmit 1<sup>-5</sup> to 60<sup>-6</sup> usage increments from the home,
- 3) receive & implement instructions<sup>-7</sup> from utilities & 3<sup>rd</sup> parties,
- 4) can be remotely shut-off<sup>-8</sup>

**Beware hocus pocus like<sup>-8.5</sup> attributing 'smart' grid benefits to 'smart' meters.** Some smart grid devices<sup>-9</sup> (not 'smart' meters), are cost effective, solutions that increase reliability and help with outages. New Jersey is upgrading their grid without 'smart' meters<sup>-10</sup>.

**AMI goals:** 'Smart' meters reduce 'peak' usage by charging 11.3 times<sup>-11</sup> (in MA) the base rate and controlling thermostats on hot summer days. 'Smart' meters do not decrease average usage<sup>-12</sup> (a major goal) by charging higher rates 8 a.m. to 8 p.m. weekdays to 'educate' you to do your laundry, etc. at night. The **only<sup>-13</sup>** consumer AMI 'benefit' is usage graphs. Higher prices: Chicago will see a "38% spike in their electricity bills...to help pay for"<sup>-14</sup>. AMI 'smart meters.

**Three new wireless microwave AMI networks<sup>-15</sup>:**

- 1) Home Area (HAN): data & instructions **to/from** appliance/ thermostat/other ↔ 'smart' meter ↔ utility & 3<sup>rd</sup> parties
- 2) Local Area (LAN)/'mesh': unknown data & instructions **to/from** 'smart' meter ↔ neighbor meter ↔ neighbor meter (~700 - 5000) ↔ one home's camouflaged cell relay/repeater<sup>-16</sup> ↔ WAN. Under a judge's order a CA utility revealed 'smart' meters pulse microwaves up to 132<sup>-17</sup> times per minute.
- 3) Wide Area Network (WAN) is a new, unnecessary series of microwave antennas and towers. For only 15k pilot meters National Grid installed 242++ WiMax<sup>-18</sup> antennas and invoked inapplicable laws<sup>-18.5</sup> to construct towers in neighborhoods.



# MASSACHUSETTS

## LEGISLATION/REGULATION

**AMI mandate** DPU Docket 12-76<sup>-19</sup>

- Well underway
- Political for Governor and DPU<sup>-20</sup>

**No-fee opt out** Bill H. 2926<sup>-21</sup>

- Dying in committee
- 'Opt out' is a pseudo-fix
  - Does not protect health
  - Punitive fees will eventually become prohibitive<sup>-22</sup>

**Fees to opt out of wireless meter ordered** DPU 13-83<sup>-23</sup>

- National Grid only (April 2014 approval)
- Successful end run around H. 2926, discriminatory

## SMART' METERING CURRENT STATUS

**Sheffield:** At 5/5/14 Town Meeting, a "substantial majority"<sup>-24</sup> voted in favor of a 'smart' meter/ AMI infrastructure moratorium

**Current MA deployments:** Marblehead, Danvers, Concord, Belmont, Braintree

### Pilots

Failures: NStar (moderate)<sup>-25</sup> & Unitil: (dismal per state rep).

**Worcester (MA 'smart' meter ground zero):** 15,000k meters at \$2,973+<sup>-26</sup> each: The auto-enroll pilot hasn't officially begun.

It is "Too Large & Too Expensive"<sup>-27</sup> per Attorney General National Grid's misinformation/spin tactic is prevalent:

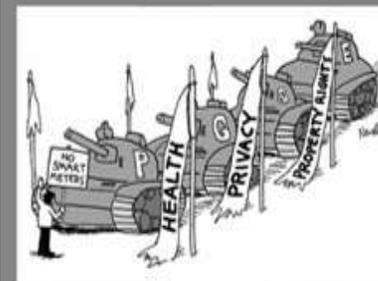
National Grid: "we will continue to move forward under its original design"<sup>-28</sup> but pilot is much larger than approved<sup>-29</sup>

- "heightened a bit"<sup>-30</sup> = replacing 55' phone poles w/90' towers<sup>-31</sup>

- pilot is "funded through a DPU order"<sup>-32</sup> but ratepayers pay<sup>-33</sup>

- 'smart' meters can collect only down to "15 minute intervals"<sup>-34</sup> but 5<sup>-35</sup> or 1<sup>-36</sup> minutes is correct.

## 'SMART' METERS?



**NO TANKS!**

## LINKS/RESOURCES

- (1) “How dumb do they think we are?” ~ IL Attorney General Madigan, Chicago Tribune 2011 Op-Ed  
<http://lisamadigan.org/Newsroom/lisainthenews/item/2011-06-lisa-madigan-opinion-editorial-comed-experiment-too>
- (2) \$7 Billion See #26 below for Attorney General’s calculation of \$2,973 per meter. National Grid serves 1.2M and NStar 1.3M customers in Massachusetts. \$2,973 per meter times 2.5M customers = \$7.4 Million
- (3) NStar (January 2014) <http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=12-76%2f12-76-Comments-7986.pdf>
- (4) 20+ years of ‘life’ left) Attorney General May 2012 (Page 26)  
<http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=11-129%2f53012aginbf.pdf>
- (5) Worcester meters can transmit 5 minute intervals National Grid pilot Itron Centron Open Way spec sheet (5 to 60 minute intervals):  
<https://itron.com/na/PublishedContent/OpenWay%20Centron%20Meter.pdf>
- (6) Next generation Itron Centron Open Way spec sheet (60 second to 60 minute intervals):  
<https://itron.com/na/PublishedContent/CENTRON%20II%20C1219.pdf>
- (7) receive & implement instructions New Hampshire law making ‘smart’ meter Home Area Network informed opt in:  
<http://www.qencourt.state.nh.us/rsa/html/XXXIV/374/374-62.htm>
- (8) Attorney General May 2012 “THE DEPARTMENT SHOULD EXPLICITLY PROHIBIT REMOTE SHUT-OFF”  
<http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=11-129%2f53012aginbf.pdf>
- (8.5) Hocus pocus like attributing ‘smart’ grid benefits to ‘smart’ meters See links at #28. Worcester Mayor Joseph Petty regurgitating National Grid talking points. Worcester City Council video slide to 1 hour, 57 minutes at  
<http://view.earthchannel.com/PlayerController.aspx?PGD=worcema&eld=121> or HMSM video montage at 21 minutes  
<https://vimeo.com/95794717>
- (9) Some smart grid devices (not ‘smart’ meters), are cost effective “Only Smart Reclosers Build Smart Grids”  
<http://www.nojapower.com/dl/library/only-smart-reclosers-build0-smart-grids.pdf>
- (10) New Jersey is upgrading their grid without ‘smart’ meters  
[http://haltmasmartmeters.org/home/do\\_i\\_have\\_a\\_smart\\_meter/new\\_jersey/](http://haltmasmartmeters.org/home/do_i_have_a_smart_meter/new_jersey/)
- (11) 11.3 times (in MA) the base rate and controlling thermostats on hot summer days DPU Worcester area pilot approval/order August 2012 <http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=11-129%2f8312dpuord.pdf>

Rate Class	Basic Service Rate	Off-Peak (\$/kWh)	On-Peak (\$/kWh)	Critical Peak (\$/kWh)
R-1	\$0.083	\$0.056	\$0.069	\$0.635
			1.2x	11.3x

- (12) 'Smart' meters do not decrease average usage "Why California's demand response programs are failing" NOTE: California is heavily deployed: they began 'smart' metering in 2009  
[http://www.smartgridnews.com/artman/publish/Technologies\\_Demand\\_Response/Why-California-s-demand-response-programs-are-failing-and-how-to-fix-them-6431.html#.U2lyEoFdV1a](http://www.smartgridnews.com/artman/publish/Technologies_Demand_Response/Why-California-s-demand-response-programs-are-failing-and-how-to-fix-them-6431.html#.U2lyEoFdV1a)
- (13) The only consumer AMI 'benefit' is usage graphs Worcester Public Service & Transportation Committee hearing. See Bill Jones response to consumer benefits question  
<http://view.liveindexer.com/ViewIndexSessionSL.aspx?indexPointSKU=zqtBWpCaNKHZPBcq4z3MwQ%3d%3d>
- (14) Higher prices: Chicago will see a "38% spike in their electricity bills...to help pay for" . AMI 'smart meters.  
<http://www.telegram.com/article/20140507/APF/305079533/0/SEARCH>
- (15) Three new wireless microwave AMI networks <http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=11-129%2f8312dpuord.pdf>
- (16) Some cell relays are located in camouflaged meters, some on poles. If you know the whereabouts of a cell relay repeater (looks like standard 'smart' meter but with an extra 5-inch base.  
<http://www.centerpointenergy.com/staticfiles/CNP/Common/SiteAssets/doc/92617%20energy%20insight%20brochure.pdf> See <https://vimeo.com/95794717> "The Meters"
- (17) Under judge's order a CA utility revealed 'smart' meters pulse microwaves up to 132 times per minute See DPU Court document, P 7  
[http://emfsafetynetwork.org/wp-content/uploads/2011/11/PGERFDataOpt-outalternatives\\_11-1-11-3pm.pdf](http://emfsafetynetwork.org/wp-content/uploads/2011/11/PGERFDataOpt-outalternatives_11-1-11-3pm.pdf)
- (18) For only 15k pilot meters National Grid installed 242++ WiMax  
<http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=11-129%2f41712ngrdir7.pdf>
- (18.5) antennas and invoked inapplicable laws in order to construct cell-like towers. <http://haltmasmartmeters.org/wp-content/uploads/2013/05/Legal-Opinion-and-Cover-Memo-TSA-2014-05-05.pdf>
- (19) AMI mandate DPU Docket 12-76~19 <http://web1.env.state.ma.us/DPU/FileRoom/dockets/bynumber> (Search for "12-76")
- (20) Political for Governor and DPU~20 <http://www.mass.gov/eea/energy-utilities-clean-tech/electric-power/grid-mod/grid-modernization.html> & <https://sites.google.com/site/massdgc/home/interconnection/grid-modernization>  
Note what is omitted as well as what is included
- (21) No-fee opt out Bill H. 2926 <https://malegislature.gov/Bills/188/House/H2926>
- (22) Punitive fees will eventually become prohibitive [http://articles.chicagotribune.com/2014-02-06/business/chi-comed-smart-meter-fee-20140206\\_1\\_comed-meters-energy-infrastructure-modernization-act](http://articles.chicagotribune.com/2014-02-06/business/chi-comed-smart-meter-fee-20140206_1_comed-meters-energy-infrastructure-modernization-act) "“If customers make the decision to refuse a (smart) meter now and incur monthly charges associated with this choice it should be with full knowledge that this refusal is simply deferring the inevitable,” the Illinois Commerce Commission said in its order.”
- (23) Fees to opt out of wireless meter ordered DPU 13-83 [http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=13-83%2fDPU1383A\\_FinalOrder.pdf](http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=13-83%2fDPU1383A_FinalOrder.pdf)

- (24) At 5/5/14 Town Meeting, a “substantial majority” voted in favor of a ‘smart’ meter/ AMI infrastructure moratorium  
<http://nomasssmartmeters.wordpress.com/2014/05/08/vote-was-yes-for-the-moratorium/>
- (25) Failures: NStar (moderate) <http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=12-76%2f12-76-Comments-7986.pdf>
- (26) 15,000k meters at \$2,973+ each: MA Attorney General February 2012  
<http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=11-129%2f2812aqincm.pdf> & AG May 2012  
<http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=11-129%2f53012aqinbf.pdf>
- (27) It is “Too Large & Too Expensive” Attorney General May 2012  
<http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=11-129%2f53012aqinbf.pdf>

The following are excerpts of National Grid speaking to the Worcester Public Service and Transportation Committee 4/23/14. The official City of Worcester Video can be found at <http://view.earthchannel.com/PlayerController.aspx?PGD=worcema&eld=118>

You can also see the excerpts juxtaposed with the truth in HaltMAsmartMeter.org’s “The Many Faces of ‘smart’ Meters” at <https://vimeo.com/95794717> To view links and sources in the video see <http://haltmasmartmeters.org/wp-content/uploads/2013/04/many-faces-of-sm-links-sources-transcriptions.pdf>

- (28) National Grid: “we will continue to move forward under its original design” - JONES: “But at this time, it is a pilot and our expectation is that we will continue to move forward under its original design.” Slide to 42 minutes of Worcester video
- (29) pilot is much larger than approved Slide to 6 minutes, 20 seconds of [HMSM’s Many Faces of ‘smart’ Meters](#)
- (30) “heightened a bit” = replacing 55’ phone poles Slide to 21 minutes, 45 seconds of Worcester video for complete quote: JONES: ...We do have a petition before the Zoning Board . Originally we were seeking Cooks Pond because there is an existing 55-foot structure there and a we just needed it to ahhhm, be heightened bit in order for us to be able to use it.
- (31) w/90’ towers ~31 See zoning application for 90’ Tatnuck data tower at [http://haltmasmartmeters.org/wp-content/uploads/2013/10/ZBA\\_TORY-fORT201310181358.pdf](http://haltmasmartmeters.org/wp-content/uploads/2013/10/ZBA_TORY-fORT201310181358.pdf)
- (32) pilot is “funded through a DPU order” (11-129) <http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=11-129%2f8312dpuord.pdf>
- (33) but ratepayers pay <http://web1.env.state.ma.us/DPU/FileRoomAPI/api/Attachments/Get/?path=11-129%2f53012aqinbf.pdf>
- (34) ‘smart’ meters can collect only down to "15minute intervals " but

WHITE OF NATIONAL GRID: "There's a lot of information out there about how granular the meters can get"

Senator Chandler: "How granular can it get, can they get?"

White replies: "15 minute intervals." <https://archive.org/details/beaconhillchat149?start=269.5> which is not correct by a factor of 3.

- (35) Worcester meters can transmit 5 minute intervals ~5 National Grid pilot Itron Centron Open Way spec sheet (5 to 60 minute intervals): <https://itron.com/na/PublishedContent/OpenWay%20Centron%20Meter.pdf>
- (36) Next generation Itron Centron Open Way spec sheet (60 second to 60 minute intervals): <https://itron.com/na/PublishedContent/CENTRON%20II%20C1219.pdf>
- (37) Access sourced flyer: HaltMAsmartMeters.org/mg/
- (38) HaltMAsmartmeters.org <http://haltmasmartmeters.org/>
- (39) Takebackyourpower.net <http://www.takebackyourpower.net/>
- (40) SmartGridAwareness.org <http://smartgridawareness.org/>
- (41) StopSmartMetersMassachusetts.org <http://stopsmartmetersmassachusetts.org/>
- (42) WccaTV.com/video/about-smart-meters <http://www.wccatv.com/video/about-smart-meters>
- (43) HaltMAsmartMeters.org/hmsm\_Media/ [http://haltmasmartmeters.org/hmsm\\_media/](http://haltmasmartmeters.org/hmsm_media/)
- (44) “Activism is the rent I pay for living on this planet.” ~ Alice Walker <http://www.bookdrum.com/books/the-color-purple/1491/bookmark/39417.html>