Myths vs. Facts: The Truth about Smart Meters

Misunderstanding advanced technology can lead to the emergence of urban legends. The case is no different with smart meters, which utilities are rolling out across the country in an effort to bring the benefits of a modernized electric grid to consumers like you.

The following are the most commonly circulated smart meter myths. Our responses, each supported by research, offer the facts — the real deal on smart meters.

TRUTH: Smart meters are rigorously tested for accuracy even before they leave the manufacturing plant.

MYTH NO.

Smart meters are less accurate than analog meters.

SmartGi

listen, educate, collaborate

- **TRUTH:** Some public service commissions require meter manufacturers to supply test results to prove that their smart meters generate on-the-mark measurements. All meter manufacturers must follow performance standards set by the American National Standards Institute.
- **TRUTH:** Prior to installation, utilities repeatedly perform accuracy tests, often side-by-side with analog meters.

Repeated tests confirm that smart meters are accurate, in some cases even more accurate than analog meters.

- **TRUTH:** In-depth review of the scientific literature by the World Health Organization (WHO) revealed that the small amount of radio frequency (RF) energy produced by smart meters is not harmful to human health.
- **TRUTH:** RF emitted by smart meters is well below the limits set by Federal Communications Commission and it is below levels produced by other common household devices like cell phones, baby monitors, satellite TVs, and microwaves. In fact, you would have to be exposed to the RF from a smart meter for 375 years to get a dose equivalent to that of one year of 15-minutes-per-day cell phone use.

No credible evidence shows any threat to human health from RF emissions at or below RF exposure limits developed by the FCC. With over 25,000 articles published on the topic over the last 30 years, scientific knowledge in this area is now more extensive than for most chemicals.

- **TRUTH:** Just as the banking, credit card and cable industries have provided secure access to your information online, the utility industry is poised to do the same using advanced security and encryption technology to safeguard your data.
- **TRUTH:** Utilities are involved in national consortiums and work with national cyber-security to regularly audit their systems to ensure privacy and security of smart meters.

The privacy of your data is protected now. Utilities work constantly to safeguard it. That will not change with the use of smart meters.

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Smart meters are a health threat because they communicate using wireless signals.

MYTH NO.

Smart meters will not keep my data secure.





Working for a consumer-friendly, consumer-safe smart grid

SGCC is a consumer focused non-profit organization aiming to promote the understanding and benefits of modernized electrical systems among all stakeholders in the United States. Membership is open to all consumer and environmental advocates, technology vendors, research scientists, and electric utilities for sharing in research, best practices, and collaborative efforts of the group. Join @ www.smartgridcc.org.

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Separating myths from reality allows you to take advantage of all the benefits that a smarter, more modernized electric grid offers. It's important to stay informed and learn about the different ways your utility is deploying smart grid and smart meters to improve their electric service. For trusted information about smart grid and smart meters visit the Smart Grid Consumer Collaborative (SGCC) at smartgridcc.org, the US Department of Energy at SmartGrid.gov, or your utility website.