

From: [Rebecca Melendez](#)
To: [LPCtestimony](#); [WPCtestimony](#); [cdp@hawaii.gov](#); [Planning General Plan](#); [Villegas, Rebecca](#); [Kimball, Heather](#); [Kagiwada, Jennifer](#); [Onishi, Dennis](#); [Kierkiewicz, Ashley](#); [Kanealii-Kleinfelder, Matt](#); [Galimba, Michelle M.](#); [Inaba, Holeka](#); [Hustace, James](#)
Subject: How Smart Meters Communicate and The American Cancer Society's Cancer Concerns with Smart Grids
Date: Monday, March 10, 2025 7:35:51 PM

Aloha,

Please Vote Unfavorable for Smart Grid and Broadband

New Smart Grid Researched Information:

"How do smart meters communicate?"

For example, smart meters don't always transmit directly to the cloud. They typically transmit data to a local smart meter gateway, which aggregates data from all meters in an area and then forwards it to the cloud, where providers and customers can access it through a platform.

Note: Both components are often indoors and sometimes underground, so they need communication solutions that can penetrate buildings and obstructions." **And they need to penetrate our bodies as well.**

How many sensors will be needed, millions?

<https://www.mdpi.com/1424-8220/20/8/2187>

Under Abstract:

"Sensors for monitoring electrical parameters over an entire electricity network infrastructure play a fundamental role in protecting smart grids..."

"...a new smart sensor is developed that offers the capability to update its adjustment settings during real-time operation, in coordination with the rest of the **smart sensors spread over the network.**"

From what I have read, **Hawai'i Planning's 2045 General Plan doesn't explain broadband or a smart grid**, and it doesn't include **information on any health risk research.**

Links explaining smart grids, smart meters, and broadband health risks because they emit RFR (Radio Frequency Radiation) waves. It's not WiFi, it's a whole other kind of network.

<https://emfacademy.com/smart-meter-radiation/#aioseo-smart-meter-radiation-an-introduction>:

With 5G already being implemented in some test markets, and smart meters being forced on more and more homeowners, there has never been a better time to gain a complete understanding of exactly what smart meters are, what kind of radiation they emit, how much, and how we can protect ourselves.

First of all, RF radiation is a type of non-ionizing radiation, meaning it does not have enough energy to remove charged particles.

However, this does not mean it is not harmful. More and more studies are showing that just because non-ionizing radiation has no thermal effect or ionizing effect, does not mean it doesn't cause long-term health effects.

In fact, the World Health Organization has specifically listed non-ionizing radiation from things like cell-phones, WiFi routers, and smart meters as "possible carcinogens," **meaning they could increase cancer risks.**

Even the American Cancer Society, who like many health institutes shy's away from saying much about the harms of EMF radiation, said this in their article about smart meters:

"RF radiation is classified by the International Agency for Research on Cancer (IARC), as "possibly carcinogenic to humans." This is based on the finding of a possible link in at least one study between cell phone use and a specific type of brain tumor. Because RF radiation is a possible carcinogen, and smart meters give off RF radiation, it is possible that smart meters could increase cancer risk."

<https://www.cancer.org/cancer/risk-prevention/radiation-exposure/smart-meters.html>:

Concerns have been raised about the safety of smart meters, mainly because they give off the same kinds of radiofrequency (RF) waves as cell phones and Wi-Fi devices.

Please Vote Unfavorable for Smart Grids and Broadband.

Thank you,

Sincerely,

Rebecca Melendez