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	Two-way Communicating Smart Meter	Non-Communicating Opt-Out Meter	Electromechanical Analog Meter
Does not emit radio frequency radiation (RFR) and does not communicate wirelessly	X	X*	✓
Does not have a switch mode power supply** which puts dirty electricity*** and interference on electricity wiring throughout the home	X	X	✓
Has proper surge protection and grounding to mitigate fire risk	X	X	✓
Makes it possible to save money on your electricity bill	X	X	✓
Data secure - cannot be <u>easily</u> hacked	X	X	✓
Does not track or store detailed private electricity use data in the home	X	X	✓
FCC compliant when in operation	X	X	✓
Meter performs as advertised by power companies	X	X	✓
Has a lifespan longer than 7 years	X	X	✓
Number of antennas in meter	2	2*	0
Currently offered as an option to Virginians for their homes	✓	✓	X

\* RFR emissions for non-communicating Opt-Out meters depend on whether or not one or both of the antennas are: (1) disabled; or (2) in receive mode only; or are physically uninstalled. Most DEV Opt-Out meters installed prior to 2022 were only disabled by using unreliable software settings that were easily reset to become communicating smart meters without the customer's knowledge. In 2022, DEV alleged new smart meter installs were purchased from Landis & Gyr with both antennas physically removed from the meter, but this is not reflected in the Opt-out form customers are asked to sign and at least half of the customers' installations had by this time already taken place.

\*\* Switch Mode Power Supply (SMPS) is the part within a digital meter responsible for switching AC to DC and DC to AC. Every time it switches, it puts dirty electricity on the wiring throughout the house.

\*\*\* Dirty electricity is "when the electrical power lines and wiring within your home contain frequencies other than the normal 60 Hz electrical current (50 Hz in Europe). These additional frequencies piggyback on the electrical wiring and radiate into your living environment." (<https://www.emfanalysis.com/what-is-dirty-electricity/>) "Dirty Electricity creates poor power quality, has led to early home appliance failures, industrial equipment control failures, GFI outlet failures, pulsating and flickering lights. Besides the likely cost of thousands in appliance damage there are also serious detrimental health effects." - Bill Bathgate (defiltersllc.com)