



## Dirty Power

**Dirty Power** is a widely utilized term these days, but unfortunately, not many people know or understand what it consists of or what its effects are responsible for in today's electrical infrastructure.

**Dirty Power** consists of several conditions:

### ***Transients:***

The single most disruptive factor associated with dirty power. These momentary spikes in either voltage or amperage, can be small or extremely large (thousands of volts or amps), and happen extremely fast (milli or micro seconds). They are caused or internally induced by capacitive loads starting or stopping, starting and stopping of pumps, compressors, lighting switches, or any other switching which occurs from non-linear loads such as dimmer switches or variable speed drives within our electrical circuits. They can also be induced from external sources into our systems from power which enters our buildings from our service providers.

### ***Radio Frequencies (RF):***

Usually in the kHz to MHz frequency ranges. These higher frequencies travel on top of our power lines within the building and can be responsible for many health conditions. They are induced into our systems from switch mode power supplies which convert AC power to DC power for the supply of our electronic devices.

### ***Swells or Surges:***

These anomalies usually occur when a rise in voltage occurs when a heavy load turns off in a power system.

### ***Sags or Dips:***

These anomalies usually occur by abrupt load increases in loads from motor starting, electric heaters turning on, or loose wiring connections.

## *Are You Aware That?*

**Smart Meters** induce **Dirty Power** into our homes and buildings from not only the service provider but also from our neighboring houses or buildings within the same grid of power.

## *Are You Aware That?*

Radio Frequencies (RF) are induced into our buildings from the switch mode power supplies within the *Smart Meters*. These can range from 2 volts with very little electrical activity up to 27 volts when activity is at a peak load draw. These harmful kHz frequencies radiate out from the walls of our buildings for approximately 3 feet at a 90 Deg. Angle. from the internal wiring within the walls.

## *Are You Aware That?*

Radio Frequencies (RF) are very harmful to our health in the kHz and GHz range of frequencies. They have been studied for years by the US military and have been proven to be carcinogenic as well as detrimental to our human cell DNA. These RF frequencies have been documented by the US Military as well as Dr. Sam Milham to cause Leukemia in children, tumors in adults, and symptoms can vary from headaches, to severe Flu like symptoms, as well as possible life-threatening conditions over long term exposure.

## *Are You Aware That?*

The **Smart Meter** and **Dirty Power** cost each of us thousands of dollars a year in electrical bills and wear and tear on our expensive electrical and electronic items we have purchased. Our expensive electronics, security systems, LED lighting, and *Smart Appliances*, will all be effected and a drastic reduction of lifespans will occur. Led lighting manufacturers have already rescinded the supposed warranties implied on their LED bulbs because of the harmful effects of dirty power. Most of the failures that we witness with our electronics, we dismiss as chance or faulty products, but it simply isn't so.

## *Are You Aware That?*

There is a product on the market which can effectively remove the harmful effects of **Dirty Power**. This suppression product is called ***SineTamer*** and it is not to be confused with all other suppression products on the market today.

The **SineTamer** suppression product has been in existence for over 30 years, and is implemented in over 50 countries worldwide. Its primary focus has been for protecting the industrial and commercial buildings, process equipment, as well as protecting sensitive electronics worldwide and allow the equipment to operate as it was intended rather than succumb to equipment breakdown and costly downtime from failure of operating systems.

It has been discovered that this leading suppression product which is the **Standard of the Industry** worldwide, is able to effectively combat the problems associated with effects of our dirty power and RF frequency which is inherent in all our power today. The special **SineTamer** circuitry allows us to protect every mode of the power within our buildings, Line to Line, Line to Neutral, Line to Ground, and Neutral to Ground. Thru our Special Frequency Attenuation Circuitry, we can closely follow the sinewave form, both above and below it to sense any deviation and quickly adjust to the excess energy, ridding it thru our different modes of protection. This special patented circuitry is not found in other suppression devices, and is what sets us apart from all others. The result of **SineTamer** Filtering, drops the RF levels to approximately 1.25 volts RMS constant.

The **SineTamer** suppression system is the safest, most effective and proven lowest let thru voltage of any suppression units in the world and is proud to be known as the **Standard of the Industry**. **SineTamer** offers the longest, most unequalled warranty in the industry (15-25 yrs.) and offers proven results over time. Typical rate of return is 5-7 months with an average 80% reduction in electrical repair and replacement.

Installation is easy by a qualified electrician, as the unit is mounted and wired into the breaker panel immediately in line from the **Smart Meter** at the building entrance. This will protect the internal circuits from all incoming **Dirty Power** and RF frequencies travelling into the building, as well as removing all transients which are induced from the house or building itself before they travel back to the **Smart Meter**.

**Total house or building protection is the key to our health, sensitive equipment and our pocket books.**

[www.cratuscanada.com](http://www.cratuscanada.com)

## Sinetamer<sup>®</sup> Family

