From data observed by the EPA, it is apparent that passenger vehicles, light trucks, and diesel trucks emit more than 29% of carbon Dioxide pollutants in our Country alone. This number can drop dramatically by implementing a nationally endorsed traffic signal monitoring system to minimize idling vehicles and improve overall traffic flow. This system is now possible due to the Traffic Signal Monitoring Retrofit Electronics (TSMRE) system, presented for your endorsement and subsequent implementation order.

As the owner of a heavy equipment/trucking business and an individual citizen, I feel highly qualified to present an opportunity for the government to make a difference to our environment, preventing unnecessary fuel consumption and improving the lives of those who drive our streets.

Observations of traffic delays due to outdated traffic signal technology are evident in every state of our nation. Little has been done to find a solution for disproportionate traffic wait times that add significant pollutants to our global warming crisis from idling vehicles. The archaic traffic system needs a change.
The most significant rationale for adopting TSMRE is to improve our environment. These benefits include-

- Cars are a significant contributor to air pollution producing substantial amounts of nitrogen oxides, carbon monoxide, and particulate matter. 80-90% of cars' environmental impact comes from fuel consumption and air pollution emissions contributing to greenhouse gases.

- An idling vehicle releases harmful chemicals, gases, and particle pollution ("soot") into the air, contributing to ozone, regional haze, and global climate change. Every gallon of gas burned produces more than 20 pounds of greenhouse gases.

- The cost of idling your vehicle for 10 minutes can add up. You use about 0.025 gallons of gasoline and generate 10 ounces of carbon dioxide every 10 minutes. It may not sound like much, but it all adds up.



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How TSMRE works

TSMRE will work with existing traffic control at road and highway intersections. The retrofit will add new hardware and software with existing traffic control technology, minimizing the waiting times for vehicles. By introducing a smart feature into existing traffic controls, the system can monitor and evaluate activity on adjacent streets. The technology will allow multiple vehicles to control the light change sequence when the system recognizes less traffic on a crossing road. One vehicle idling versus multiple vehicles idling will dramatically curtail the amount of carbon released into the environment.

The simplicity of this plan is that it is not complex, but it results in a significant reduction of carbon in our environment. It will save millions of gallons of fuel with fewer vehicles idling at timed stoplights.

What will it take to enact this change?

It is time to give main thoroughfares a system that will allow traffic to recognize the number of vehicles brought to a stop due to antiquated traffic sensors that rely on a standardized timed delay. The technology now exists to bring about a significant change to our traffic signal systems. However, state and local governments will not consider change due to budgets that will not allow signal lights to be upgraded and fitted with sensors. The implementation of change needs to be driven by a view of the greater good.

This project will require a bold-thinking government to initiate change. An **Executive Order** that mandates all signals be retrofitted would bypass all the red-tape local nonsense, delays, and the beliefs of local Traffic Engineers to stay the antiquated course.

My patented improved traffic controller and software can address all the needed provisions of the Executive Order to improve the traffic signals at intersections.

I appreciate that you took the time to review my request, and I would like to make the more detailed patented information available.

But I ask that you recognize the sensitivity of the technology I want to present. Please get in touch with me to discuss the required non-disclosure-agreement that will allow me to provide additional information.

TSMRE Document by Grant Stanton Cooper Intellectual Property, Esparto, CA

T.S.M.R.E.

Traffic Signal Monitoring Retrofit Electronics



TSMRE Could Prevent Green House Gas Emissions by up to 2 Million Tons Per Year

The traffic Signal Monitoring Retrofit Electronics (TSMRE) offers an opportunity for dramatically reducing Carbon from the Earth's atmosphere, and adding countless hours of productivity to literally millions of drivers across our Country.

Current traffic monitoring systems rely on dated technology, while TSMRE offers an opportunity to bring yesterday's solution current with today's traffic needs. In addition the advanced performance of TMSRE will provide more than 89% of the U.S. population the opportunity to improve air quality on a global scale.

This patented technology can change the world, for the better.