

# Sam's Energy Program

Over the past 30 years people have become concerned about our dependency on non-renewable energy sources and its effect on issues like "Climate Change", the environment, health, jobs, the economy, national security, etc. These concerns are having a dramatic impact on our national politics and international relations which in turn puts more pressure on the need for solutions. They are having a greater cyclical effect on all our lives with each passing day as evidenced by our government's climate change policies and the amount of money they are budgeting for it.

This paper is designed to give a synopsis of our national energy consumption. It relates to how we can implement solutions using technologies and infrastructure already available. These solutions will demonstrate:

- how we can maintain/improve our current lifestyles
- reduce pollution by at least 70%.
- reduce our dependency on foreign fossil fuels and use our existing utility distribution systems more efficiently.
- reduce energy costs, provide thousands of new good paying jobs.
- Tap and utilize a new "sustainable" energy source that is available anywhere.
- implement a robust economy and have a positive effect on our national security.

## Introduction

The two largest consumers of energy are the heating/air-conditioning of our homes and businesses and the automobile. Most automobiles consume fossil fuels, a non-renewable energy source that is without a doubt the dirtiest fuel there is. Our homes and businesses are heated and air-conditioned with oil, natural gas and/or electricity which has "demand-side management" issues for the utility companies, and detrimental effects on our health and environment. In the U.S. alone, over a thousand people die each year of carbon monoxide poisoning or fires due to faulty furnaces, electric heaters, etc. The automobile, of course, continues to be a contributor to our pollution problem.

## Solutions

Viable systems available to us today (with proven track records) are as follows.

- (A) Convert our homes and businesses to a form of Geothermal Heating and Air-Conditioning with a system known as "Ground Source Heat Pumps" (GSHP).

(B) Convert our “existing and new” vehicles to run on compressed fuel systems, i.e. natural gas, propane, methane etc. which in the end is cleaner than EV’s when you consider the manufacturing and life cycle issues of these combustion vs: EV vehicles.

Action Required:

The only thing required to put this energy program into action is a specialized “drilling” industry that installs the Loops for the HVAC Industry so they can install these GSHP systems in our homes and businesses.

In 2002 Sam designed a small drill rig that has the capability of servicing the retrofit market which to date has installed almost 2,000 homes and businesses here in Colorado.

(References) [www.igshpa.org](http://www.igshpa.org), [www.cogeothermal.com](http://www.cogeothermal.com)

As the GSHP systems are installed, that frees up the natural gas for use to power our vehicles.

[www.ngvc.org](http://www.ngvc.org)

[FuelMaker "PHILL" CNG Home Fueling — Jaycox Construction / CNG \(jaycoxconstructioncng.com\)](http://FuelMaker%20PHILL%20CNG%20Home%20Fueling%20-%20Jaycox%20Construction%20/%20CNG%20(jaycoxconstructioncng.com)),

The main reason this program is not in full swing is because there is this lack of this specialized drilling industry that services the HVAC industry. Sam intends to work with Colorado jurisdictional agencies to open this program and let the Free Enterprise System take advantage of this sustainable clean energy and the job opportunities the program affords. The environmental impact of this program is as near zero as you can get. It is sustainable and has none of the environmental impact issues other green energy programs have.

Sam hopes this short introduction to his Green Energy program has been helpful. He does have a long version of this program that is much more detailed, if you are interested, please give him a call at 303-881-8622 or contact him at [samforstatesenate@gmail.org](mailto:samforstatesenate@gmail.org).