

# *The Fastest Road to* Clean Energy

Gregory K. Soderberg



SPEND 'Em!  
\$ Don't  
LEND 'Em!

*author*

**Gregory K. Soderberg**  
507 - 440 - 1015

**[www.DebtFreeMoney.org](http://www.DebtFreeMoney.org)**

**Addressing  
Involuntary Economic Servitude  
Debt money, the effects of interest,  
the Solution and its Possibilities!**



Fredrik Broden for TIME

*The need to restore, protect and preserve America,  
our economic Freedom and  
our natural environment is imminent.*



*The fastest way to get there is through  
building and maintaining our roads and bridges with  
no borrowing, no taxes and no cuts in current programs.*



*Labor, materials, technology and knowledge  
to build our roads and bridges with clean,  
energy-producing solar, geo-thermal  
and water purification systems exist.*

## ***Lack of money***

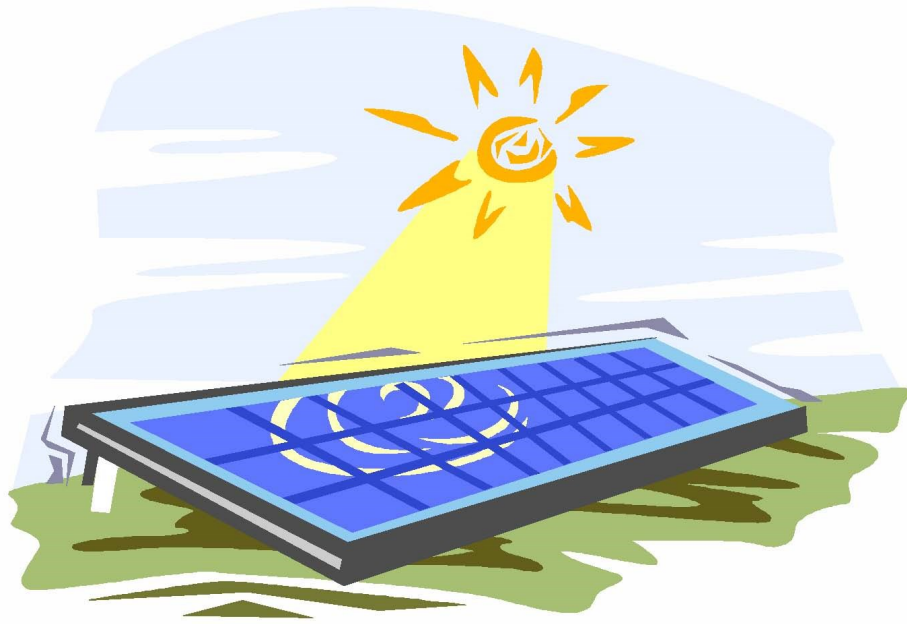
*has prevented us from using those ideas, designs and  
resources to restore, protect and preserve America,  
our natural environment and  
our economic Freedom.*

## ***Until now!***

*“The fastest way to a  
green environment  
is to build our  
roads and bridges  
with solar,  
geo-thermal  
and  
water purification  
systems  
without  
borrowing or taxing.”*

# Table of Contents

		Page
	Solar	7
	Geo-Thermal	12
	Water	16
	Funding	22
	A Bit More	28



# **SOLAR**

Solar electricity reduces the effects of gasoline and diesel fuel emissions on our environment by providing the fuel required to power electric vehicles and increase their usage. Roads lighted by solar electricity improve the safety of painted roads. Solar electricity powers rest-areas and provides rest areas with free electricity for charging electric vehicles. Free electric fuel further encourages the purchase and use of electric cars. The electricity is ‘free’ because the solar infrastructure is paid for. The Sun sends us no bill.



Solar and wind-powered electrification systems built at rest areas and on interstate highways distribute readily available free electric power.



Image credit: WSDOT

Free electric fuel speeds the reduction of unclean fuels usage. Solar systems in urban and rural towns provide the same benefits as Interstate rest area designs.



Image credit: Ohio DOT





Rest Areas

All rest area buildings, landscaping and maintenance are paid for **without taxing, debt or borrowing.**

Roads marked with solar lights increase visibility and safety of painted roads; reduce accidents, insurance costs, injuries and loss of life.

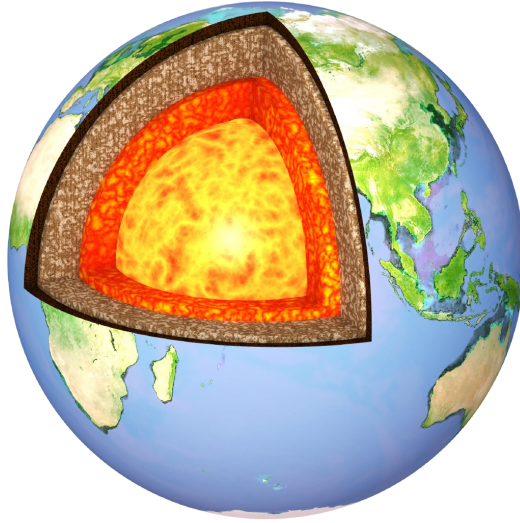


Image Credit: [wondrouscuriosity.net/lights-will-guide-you-home](http://wondrouscuriosity.net/lights-will-guide-you-home)

Countless new jobs are needed and created employing the flood of designers, engineers, manufacturers and assemblers to create the parts required in all aspects of solar power, solar panels, lights, **battery storage systems**, wiring and other electrical-related parts.

Countless additional jobs are created in the solar service-sector related to installation and systems operations. The production and salaries for all of these jobs is paid for **without taxing, debt or borrowing.**

Fuel, axle, transportation, property taxes and assessments previously collected for maintaining and building roads and bridges are eliminated as roads and bridges are built, maintained and paid for **without taxes, debt or borrowing.**



# GEO-THERMAL

Geo-thermally produced heat and electricity is distributed where needed. Removing heat reduces road 'blow-up' in hot weather. Adding heat prevents or reduces icing in winter. Overall road safety is improved. Maintenance costs are reduced. The need to salt the roads and burn fossil fuels in road-clearing vehicles is reduced or eliminated.

Bridge road surfaces, particularly in unfavorable locations as over water, in gorges, shady areas and low-lying areas ice up

considerably faster in winter than road sections in direct contact with the ground.

Icing increases the risk of accidents and forces the winter gritting/salt services to begin operations at a much earlier point in time.



Heating coil embedded in geo-thermally heated bridge,  
Berkenthin, Germany

Picture: H.S.W. Ingenieurbüro Rostock

Collected ‘**geo-heat**’ melts road sections that become icy and dries road sections that become wet and slippery. Geo-thermal energy heats rest area buildings in winter and cools them in summer.



Steam-created electricity powers road lights and rest stops. The use of corrosive salt to melt ice and snow is drastically reduced along with the costs of snow plows and the fossil fuel needed to power them.



Geo-thermally heated bridge, Berkenthin, Germany  
Picture: H.S.W. Ingenieurbüro Rostock

Again, countless numbers of jobs are created in design, engineering, plumbing, electrical, assembly and manufacturing to make the parts needed in all aspects of geo-thermal: turbines, generators, heat exchangers, corrosion resistant, clad and special pipes, vessels, tanks, columns, casings and components ready for installation, such as float equipment, line hangers, tie back

parts for depth drilling for production and injection, transport cross-country line pipes between the wells and power stations, other transmission lines, prefabricated piping/spools for process piping in the power station.

In addition to the jobs created in the solar industry and jobs created in geo-thermal parts manufacturing, more jobs are created in the service-sector related to geo-thermal installation and systems operation.

Fuel, axle, transportation and property taxes previously required for this purpose are eliminated. Our **roads** and **bridges** continue to **get better, safer and more enjoyable**. Our **environment** gets **healthier faster!** All of this is accomplished and paid for **without taxes, debt or borrowing**.

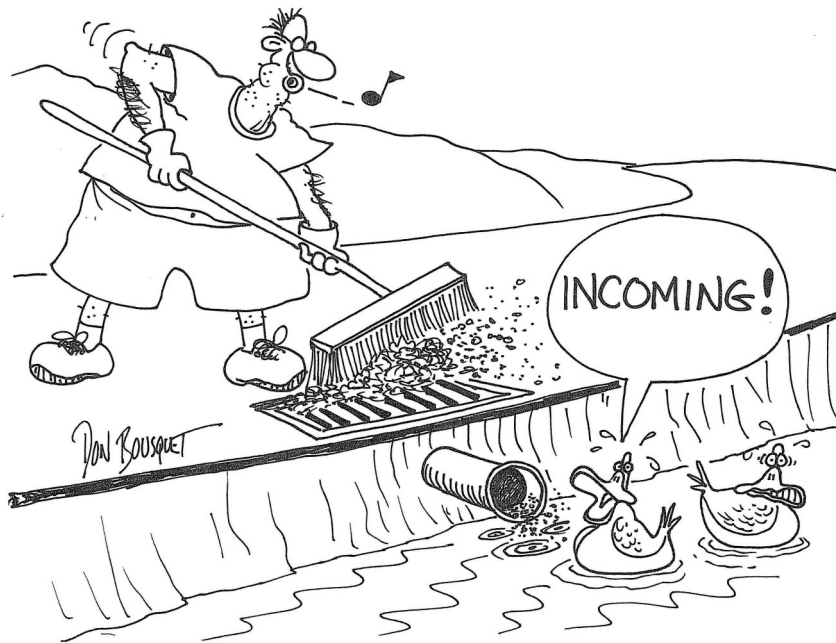




# **WATER**

Road traffic has become one of the most serious environmental problems in many cities. It's the main source of pollution of urban soils. Rainwater that runs off roads, roofs, parking lot and lawns, carry pollutants like oil and gas residues, pet waste, pesticides and fertilizer into local waterways and water tables.

Vehicles deposit major, minor and trace elements, cadmium, nickel, lead, zinc, arsenic, oil-based fluids, grease, corrosive materials and more onto roads surfaces which find their way into our water.



There are many water purification technologies that can be used in the building of our roads to help keep our water clean.

A technology called 'Pervious Paving' allows for filtration of water into the soil below. A drain pipe allows excess water to drain into a closed drainage system.

The drains are engineered to collect road water run off which flows through pipe systems to water purification plants where the water is purified before returning to the water table.

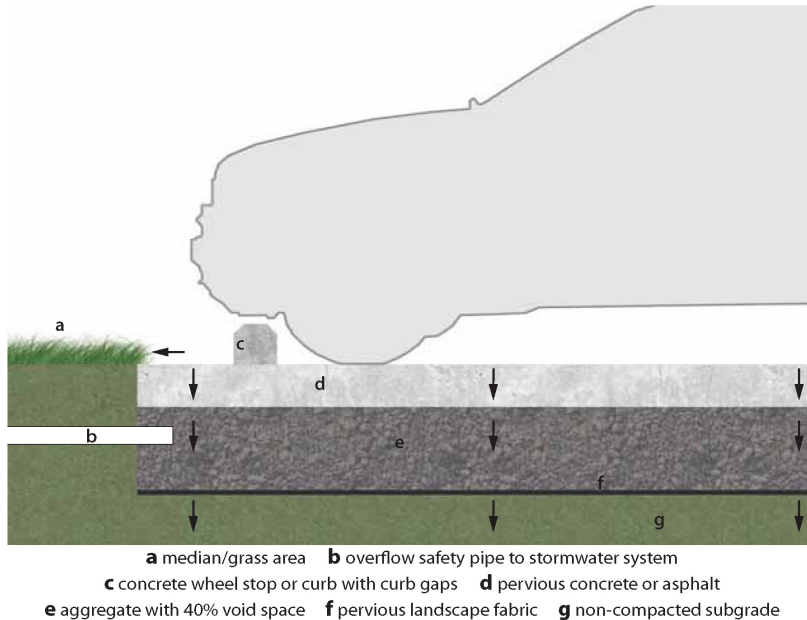


Figure 35: Schematic Section of Pervious Paving

Picture: Central Louisiana Code of Ordinances

‘Rumble strips’ designed to be ‘wake ups’ that alert inattentive drivers of potential danger are redesigned to also serve as water drains.

Again, countless new jobs are created in design and engineering, parts manufacturing and more jobs in the service-sector related to water purification systems installation and operation.

Some **benefits** of funding these systems with no taxing or borrowing:

- Smooth, safe, state-of-the-art roads and bridges
- Limitless, free, clean energy **now**, not years from now.
- Clean water and air.
- Job growth in High-tech industries.
- Countless new, high-paying jobs.
- A widespread higher standard of living.
- Increased personal savings.
- Tax assessment for road work eliminated
- No more fuel tax, license or vehicle registration fees.
- No costly commercial fuel or transport taxes added to the costs of goods.
- Lower costs of living, business, production and freight.
- Increased purchasing power.
- Smaller, less costly, government as more citizens take exciting, promising jobs in America's prospering new economy.
- Reduced demand for coal/oil generated electricity
- No new debt or taxes.

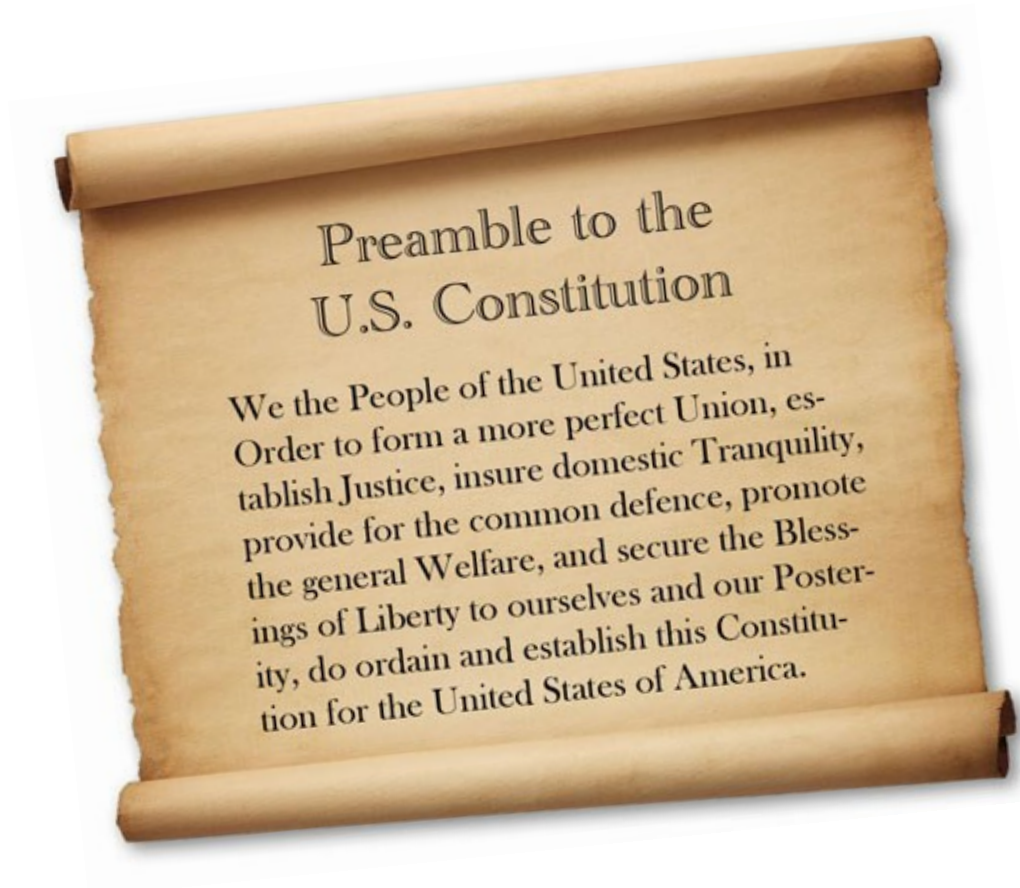
With more Americans enjoying a higher standard of living there is less need for costly social programs and fewer people needed to administer them.

Commerce requires roads and bridges. Everyone benefits from using the roads, bridges and tunnels. Materials to build and maintain roads are readily available. People need debt and tax relief. There is no need to tax fuels and property or to borrow to build the roads when the money is created and **spent** into circulation as a debt-free, earned payment as the roads are built. No new debt or taxes are created. Government loses no needed revenue. When Americans must no longer be in debt and must no longer beat up on each other to have a medium-of-exchange, social and economic contention diminishes. Tranquility increases.

The fuel, axel, transportation and property taxes and property assessments previously required for building and maintaining roads and bridges are eliminated as this new production is accomplished and paid for **without taxes, debt or borrowing.**



One intent stated in  
the **AMERICAN** Constitution,  
The Law of our Land  
was to  
*promote the general Welfare.*



Congress also has authority to  
- *create Money*  
- *establish Post Offices & post Roads.*





## FUNDING

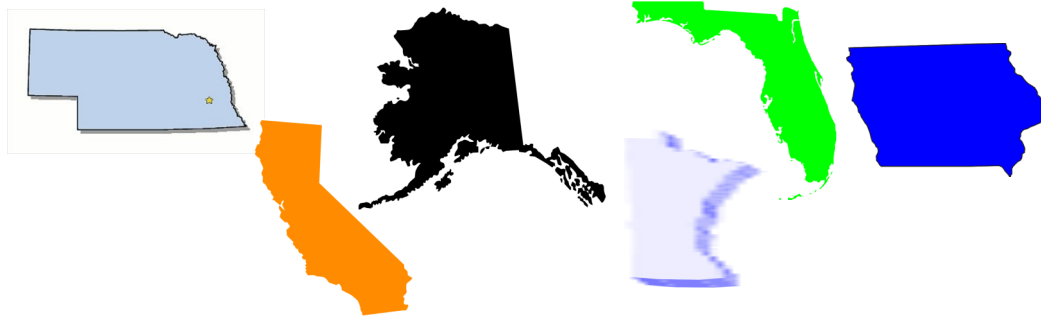
Freedom, Fairness, Prosperity and a clean, healthy environment are restored when Americans return to the **principles** of a Wealth Money System where all money is created and Spent not Lent into circulation as a **final, debt-free, earned payment**.

The fastest, most effective way to do this is to **‘monetize’** America’s **public Roads and Bridges** debt-free.

**Now**, to get money it does not have for roads and bridges, **government** creates a financial instrument called a **bond** (*promise to pay*) that goes to a bank. The bank holds the bond as **collateral**.

The bank then creates new money as **numbers** on its books and lends the numbers to the government. The new money is a debt to the citizens. Government spends the numbers as paychecks to the citizens who provided the materials and labor for roads and bridges. The citizens have then borrowed their paychecks as their 'paychecks' plus more must be taxed back from them to pay back the bond principal plus any interest.

*Any **State's**  
Transportation Act*



**State banks** are regulated by state law. State banks will **create the numbers**.

The State presents the winning bid for a road or bridge project to a state-chartered, state-regulated bank.

The state-bank holds the bid on its books as a non-cash asset and creates new money (numbers) equal to the value of the accepted bid just as was done with the bond **but.....** the **DIFFERENCE** is that the **new money is not a debt** to the state bank, the State or anyone. It is an earned payment representing the wealth we produce. The numbers pay for public roads and bridges in place of taxing or borrowing.

1) The **bank** then forwards the new money, (numbers) electronically to the road authority in charge of the project.

2) The **road authority** forwards the money to the contractor.

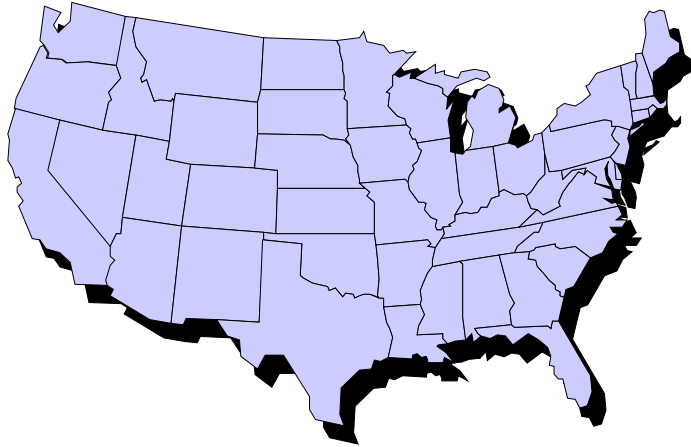
3) The **contractor** pays the labor and material providers.

4) **Labor and material providers** spend their earnings into the economy further on other goods and services.

# *The **Federal** American Transportation Act*

View at

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

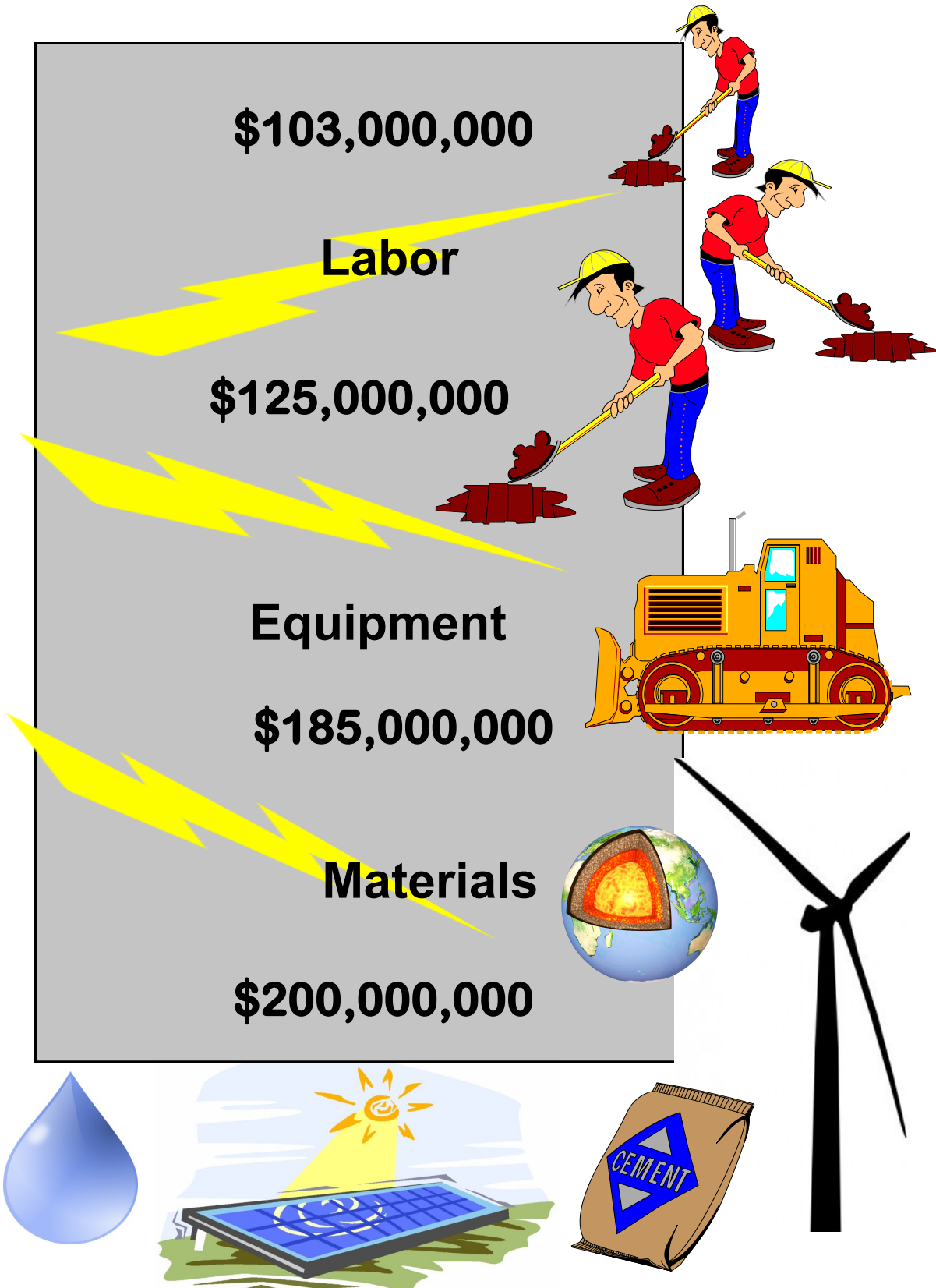


Our **U.S. Treasury** creates the numbers, prints currency or stamps coins and **spends** them into circulation to pay for public roads and bridges in place of taxing or borrowing.

Labor and materials providers do the work first. Then they are paid their earnings. The money represents the wealth of America.

No debt or price inflation is created when the money supply increases as a debt-free payment with the increase in production.

The money is spent to pay for the project.



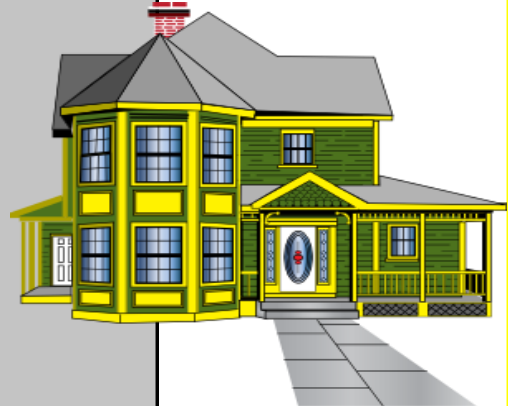
**The money flows into the state's economy  
purchasing the needs of life.**

**\$100,000,000**



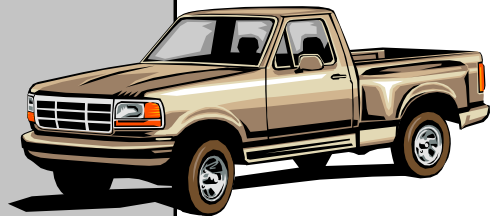
**\$142,000,000**

**Housing**



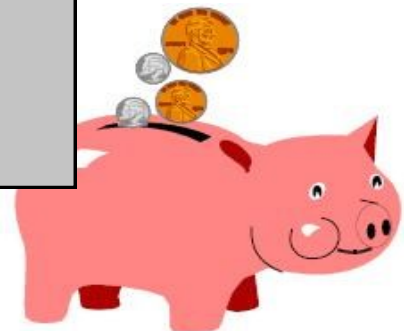
**\$87,000,000**

**Transportation**



**\$185,000,000**

**Savings**







## A BIT MORE

Congress wrongfully transferred its duty to create money for the benefit of all citizens' to private special interests who switched our money for their personal profit from an evidence of wealth we owned to an evidence of debt we owe them.

This transfer of duty gave the new money creators tremendous power and influence over all sectors of society still exercised today.

Now, all money is created as interest bearing loans. If we don't borrow, there is no money to earn, spend or save! Forced to borrow, Americans were placed and remain in economic servitude!

To understand how the Debt Money we are now forced into debt to obtain destroys our environment, one must understand that Debt Money is when:

*“The actual creation of money (ALWAYS) involves the extension of credit by private commercial banks.”*

—Russell L. Munk, U. S. Treasury.

This means that all money is created by banks as loans. Someone must go into debt to obtain the numbers the bank creates.

*“Money is created when loans are issued and debts incurred. Money is extinguished when loans are repaid.”*

-John B. Henderson, Senior Specialist Price Economics,  
Congressional Research Service, Library of Congress.

Forced borrowing is economic servitude, one result of creating and loaning all new money into circulation. Additionally, the debt is always greater than the money supply and growing with time. Only more borrowing increases the money supply.



The constantly growing interest debt causes an ever widening spread between the money supply and costs. As the spread widens, it drives the costs of living and doing business higher, making it harder for Americans to make ends meet, harder for business to maintain profit margins, contributes to poor resource utilization and distribution, environmental destruction, ever increasing

costs of living, low wages, growing money shortages, ‘short-cuts’ in production processes and more.

Producing to meet need has been lost to producing more and more just to get more money to meet constantly rising costs caused by the growing ‘spread’ and to grow profits. Some refer to this as the ‘***Growth Imperative***’ which perceives the natural environment not as something to be enjoyed and cherished but rather as a means to the paramount ends of profit-making and capital accumulation. It takes constant marketing to encourage purchases of the excess production and promotion of credit and borrowing that will hopefully enable consumption of the excess.

The growing struggle to maintain profits results in other shortcuts during production like dumping pollutants and toxins into our water and air, low nutrition foods, products

of cheaper, less durable materials, planned obsolescence, products requiring constant upgrades and low wages.

As the use of debt money slows to a stop and debt free money fills the void, the debt will come out of and no longer be added to the costs of living. Costs of living will stabilize. Purchasing power will return. Personal savings will increase. Taxes for costly social-help programs will diminish. The need to produce just to keep up with ever increasing costs will fade. Recycling, reusing and repurposing will diminish the senseless abuse of natural resources. People will drive less as new businesses proliferate and people find jobs closer to home.

We can restore environmental health faster, and sooner; stop the destruction of our home, create living wage, hi-tech jobs

and promote Liberty, Justice and Prosperity **now**, not later, **without taxing or borrowing** by creating money not as a debt but as a wealth, ‘representing’ a thing produced **that we all need and use freely with no fees, taxes or debt—Public roads and bridges!**

### **3 Things must be done...**

- 1) **Face Truth**
- 2) **Combine** the Congressional authorities to create money, promote the general Welfare and provide Post Roads.
- 3) **Create and spend** all new money into circulation as a **final, debt-free, earned payment** rather than loaning it into circulation as unpayable debt obligations which drive America and the world deeper into debt, economic servitude and destruction.

***“There is a Better Life after Debt!”***



*Team up*

with

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

to develop America's understanding of  
destructive debt money and to pass the  
federal or state legislation described  
herein that will:

**Spend not Lend**

**all new money into circulation**

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**Provide state-of-the art Roads & Bridges**

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**Break the Bonds of Economic Servitude**

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**Stop Environmental Destruction**

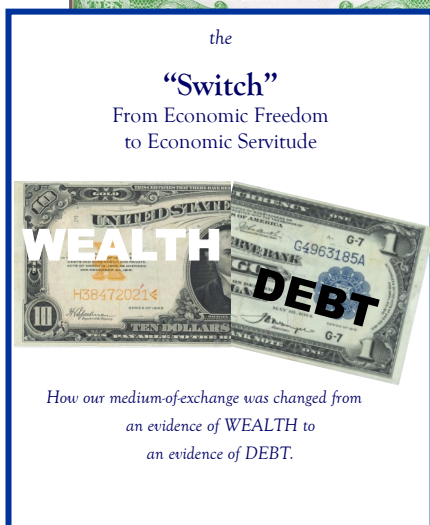
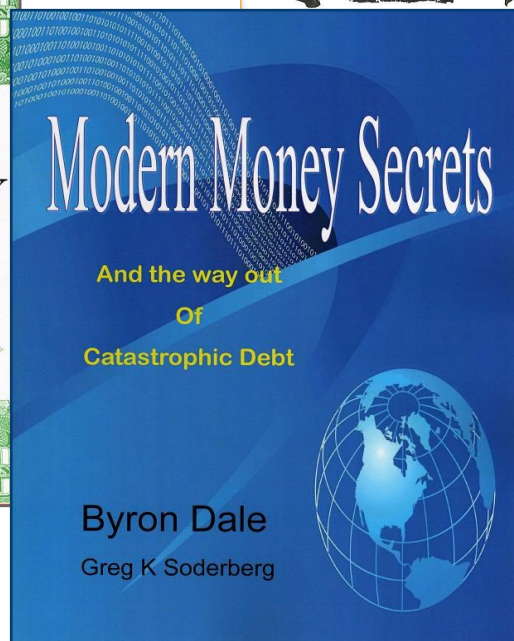
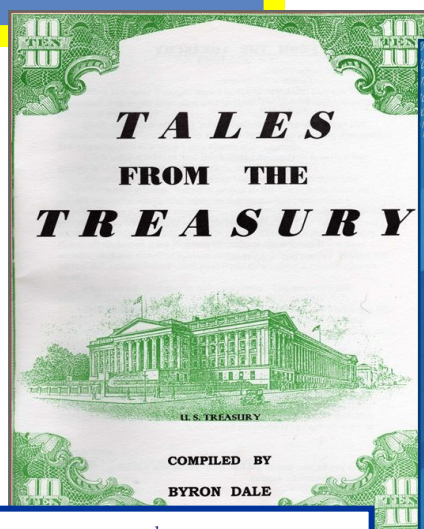
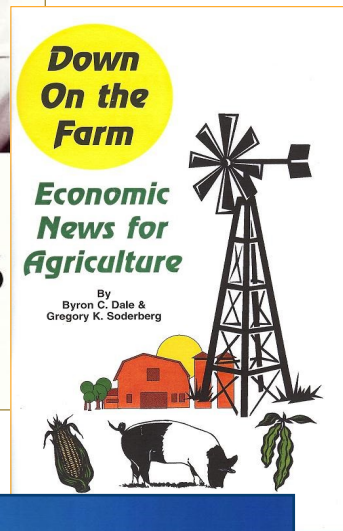
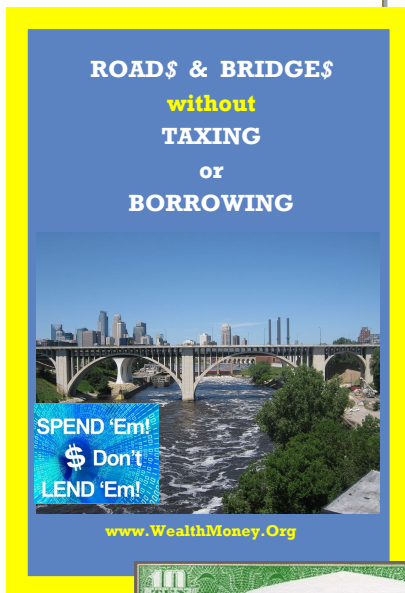
***Now!***

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**Addressing**

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**Debt money, the effects of interest,  
the Solution and its Possibilities!**



Online at:  
[www.DebtFreeMoney.Org](http://www.DebtFreeMoney.Org)  
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 Order from the authors

The background of the cover is a stylized illustration. It features rolling green hills with several dark green, rounded trees. A winding road with a yellow center line leads from the bottom center towards the horizon. In the distance, a bright sun or light source is positioned on the horizon, with numerous white rays radiating upwards into a blue sky filled with soft, white clouds. The title text is overlaid on the upper half of the image.

# *The Fastest Road to* **Clean Energy**

Gregory K. Soderberg

A small rectangular inset in the bottom left corner. It has a blue background with a pattern of white binary code (0s and 1s). A bright blue light source is visible in the center, with rays emanating outwards.

**SPEND 'Em!**  
**Don't**  
**LEND 'Em!**