

Paul Jay's History of
Oil & Gas



Parts 1,2,3

PAUL JAY'S

**OIL & GAS
VS
HEMP**

HOW OIL AND GAS

**KILLED HEMP AND
TOOK OVER**

THE US GOVERNMENT

AND OUR LIVES

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INTRO/PROLOGUE

part 1:

12 Pictorial
sketches
beginning to end

part 2:

Going to Hell
in 12 Chapters

part 3:

After Oil and Gas
Going Forwards with

HEMPPrograms

Investments (HEMP INDEX)

PROLOGUE

TO OIL & GAS VS HEMP

HEMP REVELATIONS

We could probably get all our energy needs from above-ground sources, leaving the poor planet in peace, if we absolutely had to. A lot of the replacement for the below ground sources, oil and gas, would be supplied by a miracle plant: **hemp**. In trying to make a long story shorter and shorter, since the narrative must be a reduction of the factoid-stained history, I am starting at the end, with the conclusions I continue to draw from this long look at oil and gas chronology. The role of hemp in this story was a complete surprise. To lay out the salient conclusions:

-Oil and gas is in all aspects of our lives. Puffy jackets are oil and gas

-It got that way by eliminating the competition, primarily hemp. It's an ugly history; the farming of a staple crop became a Class 2 felony under the Controlled Substances Act.

-FDR was able to get his social programs through Congress, which was full of anti-communist libertarians, by outlawing hemp, 1937. This left oil and gas, big pharma, and big agro with monopolies.

-The monopolies, particularly oil and gas, created state capitalism, US style, in DC and state capitals, the industry and its think tanks controlling legislation through campaign contributions and other dark money ways. This is part of their laser focus on preventing regulation of their industry, and amounts to an equal and opposite reaction to the consequence of our fossil fuel addiction, global warming, which is so dire it makes oil and gas terrified about regulation. This effort has turned to extensive, agitprop tactics to convince gullible Republicans that global warming is a hoax.

-After a century of this we have this linear fossil-fueled economy, whereby Carbon collects in the sky, money collects in off-shore accounts, plastic collects in the oceans and the tra-

jectory is apocalyptic. Lies are given more weight than truth, and violence is becoming fashionable. In most oil producing countries, the higher the price of oil the fewer the personal freedoms.

-To compete with the monopolies, to drain their absolute power on government and the economy and our personal lives, one has to create an alternative hemp economy, in which only hemp products are created, invented, marketed, and purchased for our daily needs. There is no substitute for hemp, its versatility is why oil and gas has been so threatened by it. Hemp has no lobbyists walking the marble halls, and therefore no protection from whatever oil and gas wanted to do.

-Hemp was a staple food for birds, bees, cows (a glass of milk used to have CBDs) and the plant has to return to the wild and to the fields. It must return to our fuel tanks, wardrobes, medicine cabinets, FEEDLOTS and every other niche that oil and gas has monopolized.

-Oil and gas is the ultimate monopoly, hemp is the ultimate anti-monopoly, since anybody can grow, process, make stuff out of hemp, now that it's legal again. Anybody could sell a harvest to cattle ranchers, who then don't have to feed their cows corn and soybeans, or to hemp ethanol producers to run Diesel trucks.

-Hemp plastic is biodegradable, petro-plastic is not.

-Hemp replenishes the soil, Monsanto monoculture depletes it.

We can go on and on, but the question becomes: how to can we revive hemp and **sap economic energy from oil and gas?** It's conceivable that this is the only possible way to deter extinction of our species.. bees go, we go.

A look at the hemp market shows where a number of improvements could be addressed. In order to compete with oil and gas, hemp businesses must organize this universe like a monopoly, with e-tail, retail, fashion, medicine, fuel all available, easy to find, separate from the oil and gas world. In hemp world every-thing is at least 50% hemp. Then it would be possible, even easy for a normal consumer like you or me to rid ourselves of the monopolies, to live circular, healthy lives without gasoline, prescription drugs, plastics etc., and to pass this style along to the kids. More about this plan is at the end of this book.

A previous project of mine was an index of solutions to

the causes and consequences of atmospheric Carbon. I called it the INDEX, since it should have uncovered the technology that could save us from the worst. It listed and described all kinds of emerging technologies, a look at the future, but hemp wasn't even on the list. It turns out, what seems obvious after this quizzical look at oil and gas, that hemp is the future, if there is a future. Not some zero-point electromagnetic motor, or monster fusion reactor.. Hemp.

That's a good question, whether a future is plausible. At this writing oil and gas consumption continues to rise unabated, and the political urgency is to placate the population in the face of rising fuel prices. This placation is the source of rationale for oil and gas subsidies. The message I would like to hear is about stopping the burning, changing consumer habits and their tight relation to the oil and gas industry.

Already I've started to slowly disentangle my life from oil and gas, by replacing gas stove with electric, a Diesel car with an electric bike, synthetic fibers with hemp (so far some underwear and pants, very comfortable), bamboo toilet paper and diligent composting. My future plans include a geothermal heat pump system and solar panels and energy storage and satisfying my quotidian needs with hemp and bamboo products.

What I need is easy access to these products. ALL THINGS HEMP BAMBOO. is just a filter, an index like a phone book. If I need it, and I do, why doesn't everyone need it? The vendors of hemp products certainly do, since the rest of the commercial world tends to bury them. This suggests that the demand for hemp products will grow, how fast depends on the popularity of the products and whatever sense of urgency can be kicked up, Greta style, among the planet's inhabitants.

But Paul, the subject is oil and gas, not hemp.

Well, I got to hemp by looking at the history of oil and gas, that's where I ended up. That's where I am now. Here is how I got here.

PART ONE

1

PAWL JAY

ROQUE GENERAL

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V11/ro

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Part 1

5

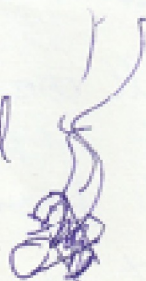
IN THE BEGINNING

HUMAN POWER

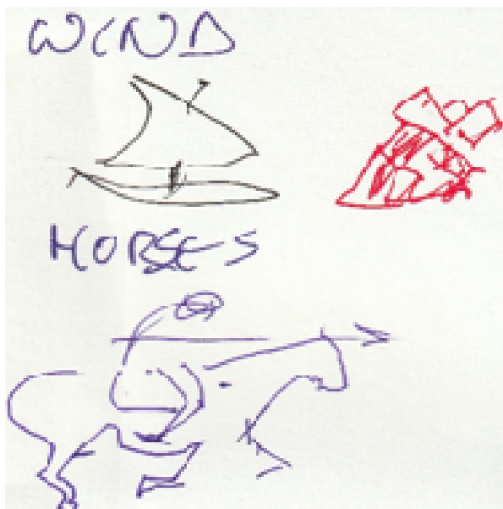


wood

FIRE



- Ok



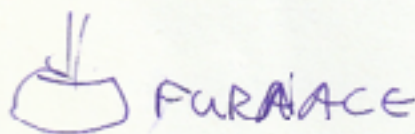
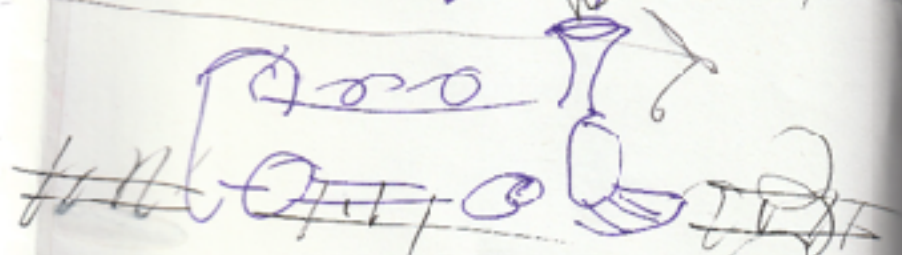
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C441 &/

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COAL STEAM



FURNACE



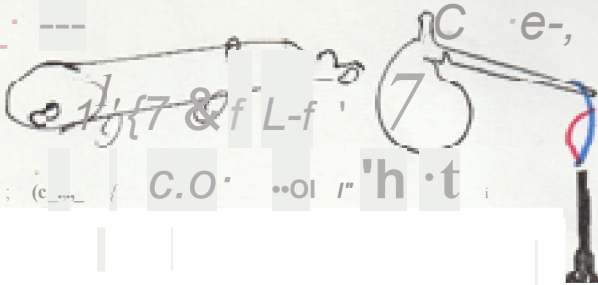
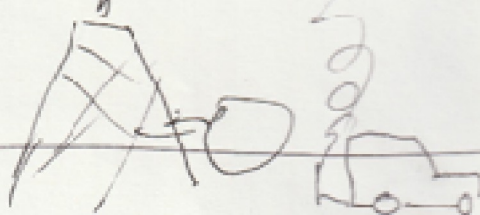
Taylor
AC

discovery of properties of CO_2
1850



PETROLEUM

BLACK GOLD



p

ne

O & G

petropharma
domination

OSG

KOC

CHEVRON

EXXON

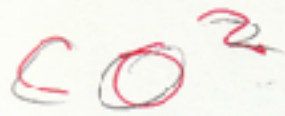
UNICAL

proper



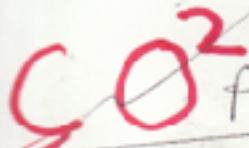
Petro Chem

POLLUTION



METHANE

- Bakelite
- polystyrene
- vinyl
- acrylic
- nylon
- polyethylene



PCB

THE GRID

PLASTIC

INTERSTATE, TANKER'S
 JETS
 MILLIONAIRES
 GLOBAL ACCESS

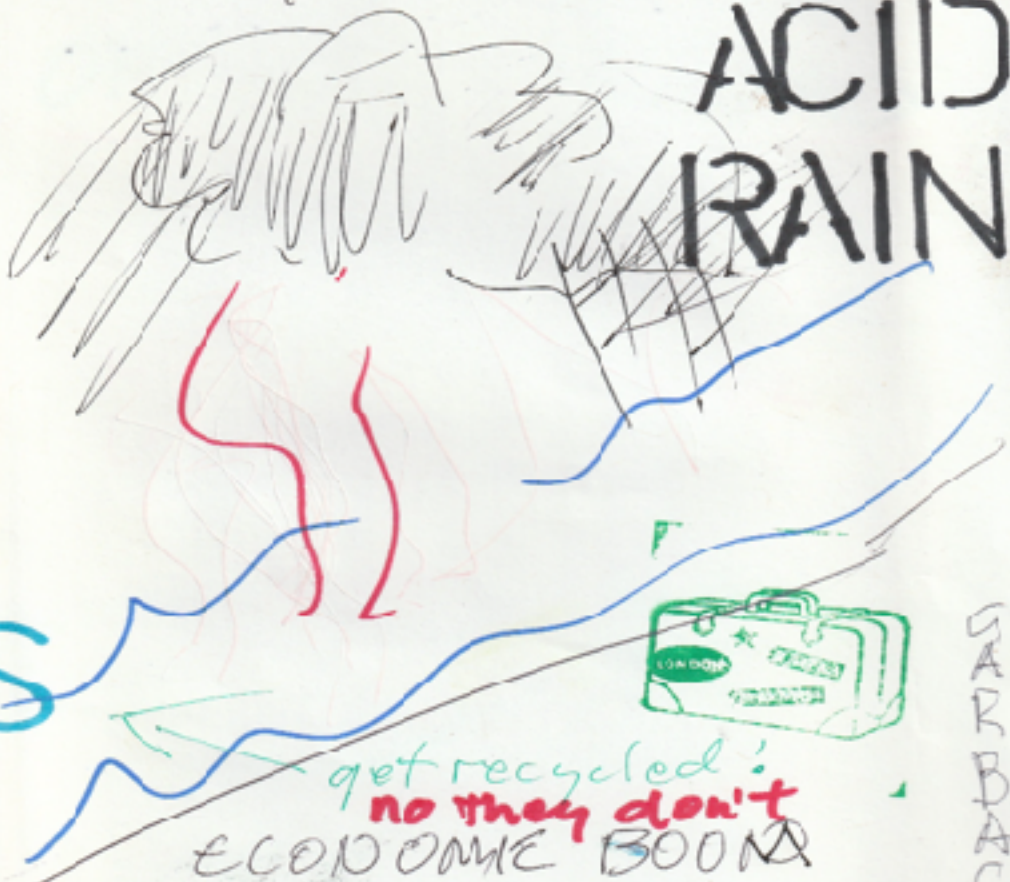


properties of CO_2 unrefuted

These drawings, pre Biden, represent a scribbled overview of a

ENVIRONMENTAL DEGRADATION

ACID RAIN



get recycled?
no they don't

ECONOMY BOOM
CONSUMERISM



quantities of CR unrefined

SARBASO

very-wide subject, and don't actually point to the conclusions as

Environmental EPA Protection Agency

NIXON

REGULATIONS

Methane
Carbon tax

Do regs help or hurt economies

O & G Economies

U.S.A
RUSSIA
Ven.
SA
IRAN

State Capitalism



CLEANER
AIR

CO₂

More travel
properties of CO₂ unrefuted

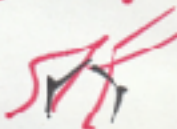


outlined in the intro regarding hemp. I always assumed the fix for this disastrous trajectory lay in emerging technologies, but that's

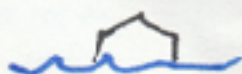
Climate Chaos

~~CLIMATE CHAOS~~ CO² 420ppm

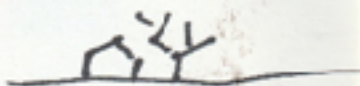
WILD FIRES



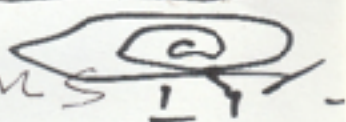
FLOODS



DROUGHTS



SUPER STORMS



~~DENIAL~~

Demonization
of HRC

~~Radicalization of moderate
Republicans~~

~~MODERATE REPUBLICANS~~

~~RUSSIA~~

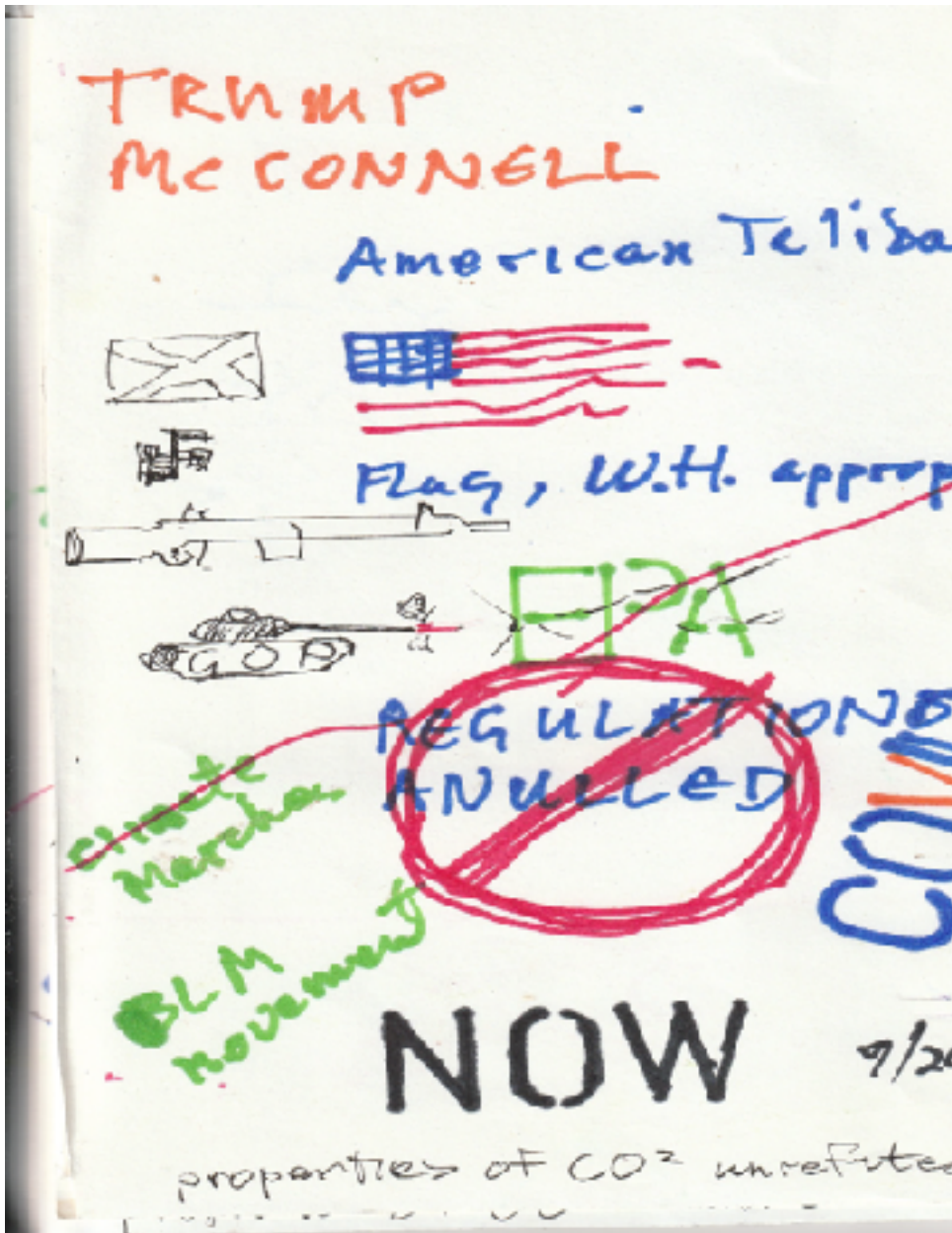
~~NRA~~

~~SELF TRUCKERS
DOUBLE BAGGERS~~

only

partly true, since we can't engineer a better solution than hemp.

Once this is obvious all efforts to curb global warming will make more sense. It's nice to know what has to be done, especially since doing it isn't particularly difficult.



~~ZIMIRON~~

Citizens United!
Corps are people too!

today & z

NOW

PETRO
STATE
CAPITALISM

FF refiners, extractors,
combustors ~~are~~ free
of regulation.

wall st
delighted ↑

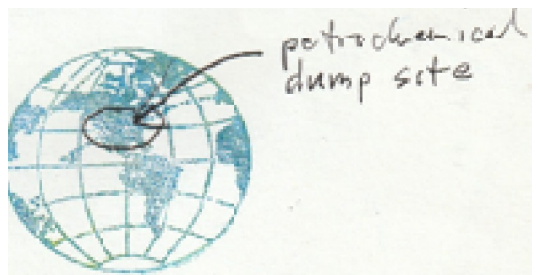
EPA ↓



party time
arctic reg!
pipelines!

WHAT IF?

EPA REGS
NEVER
EXISTED?



make a note cause that's statue



Un Revoir!

end of civ.

CO₂

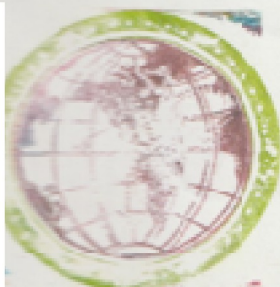
NO REGS

CO₂

EPA REGS

DIVERGENT

FUTURES



Paul Jay's History of Oil and Gas



part 2

GOING
TO
HELL

What will it take short of an asteroid to stop the Carbon emissions? Perhaps you harbor an opinion on the subject, perhaps you're already fretting over this, or not thought about it at all. Whatever your position or your reason for reading this, I'm grateful to share this output, because this needs to be analyzed and acted on yesterday and when dire threats come calling, Darwinian laws say transform and adapt.

I'm the problem, times everyone else on the planet, particularly the Americans, so any transformation is extremely personal, about my habits and assumptions and physical existence.. Americans generate a fourth of the Carbon going into the sky, we're very bad. Oil and gas has succeeded in hooking us on every product of convenience and wiping out the competition, and we've gone along, and what we've become as consumers must fundamentally change.

But first we have to understand what has happened and where it's headed, and that's only the beginning. Since oil and gas has covered a lot of territory, including much of life as we know it, this book has to do the same.

When I bring these subjects up at the dinner table, which I have a tendency to do, my dear elderly mother reminds me that no one will listen to a word I say because I have no letters after my name. I have to remind her that this isn't a field of study, this is a new frontier with no degrees, no letters or titles, no obvious limits to the inquiry, no career path or salary or tenure and nobody pays the slightest attention anyway. Which was her point. Still, this sort of work needs to be done, and just recognizing that turns it into an obligation. She brought me up catholic, the religion of martyrs, so she can only blame herself for my desperate, flaying, hypocritical, fruitless, desperate efforts to kill oil and gas.

‘Those who have the privilege to know have the duty to act’

A. Einstein

‘Calamity forces change’

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- THE PROPHECY
- FDR and the rise of the monopolies
- Traditional American Values
- Gas Addiction
- Hemp and Systemic Racism
- Investment in fossil fuel economy
- Self-interested consumers W/O Responsibility
- Health Care
- Blinding out global warming
- The Grid
- Headlines
- Education
- Business Plans
- State of the Art (the INDEX)
- Financials
- Removal
- Rebuild



1. THE PROPHECY

Behind the Gates of Eden, one could argue, was a paradise into which two human prototypes, male and female, were introduced in a failed experiment. This is consistent with the tale.. Being evicted from the Garden of Eden, the Genesis story, is the same thing as losing it, which is what's happening to us now. The Garden of Eden and our up and coming hell on Earth are not separated by a gated wall but by time, the time it took for us to evolve, overrun the place, develop technology (eat of the

fruit; a metaphor) and trash, plow under, and combust the Garden of Eden.

Adam and Eve had, and lost, a paradise. The Eden-like conditions they, we, briefly enjoyed, that evolved over billions of years, still exist in parts of the world, even with humans involved (Extremadura in Spain comes to mind, where the people and the creatures and plants coexist, also many religious communities have that integration on different scales, the small farms that are disappearing, private vegetable gardens). We get an iPhone, that's the trade-off. We get palm oil and cheap coffee and lots of getting around. Eden less and less.

Some think the 'tree of knowledge' was a real tree, and that the garden and the eviction, for breaking the rules by listening to the talking snake and eating of the fruit, are literal, but it's really a prophecy, not history. The fruit of the tree of knowledge is technology, including the capitalist economy that drives technology. Why else would Steve Jobs and the Beatles use an apple for their company symbol?

It may well have been called the tree of fossil fuels, or the money tree; the tree of knowledge wasn't the only tree in the garden. Tech and oil and gas are, broadly speaking, the low-hanging fruit that are taking us on a one way trip out the gates and into a hellscape. Meanwhile we think we're in consumer heaven, with everything we've ever wanted, sold to us by... the talking snake! Of course Fox News is full of them, Congress is full of them, religious TV is full of them, it's not just one

snake, not just one apple, and I'm beginning to suspect that the Serpent might be a spokes-snake for oil and gas.

Can one get back to the garden? Is there a way out of this prophecy? I certainly hope so but doubt it. As far as I know time doesn't go backwards. With oil and gas monopolizing economic activity, the more economic activity, the more Carbon is in the sky and the more quickly the garden disappears. Flames, floods, dust and pestilence replace the babbling brooks. We will suddenly wake up on the set of the apocalypse. Like California but with 3 feet of sludge in the foyer.

That's not very uplifting, sorry to bring you down, but this ongoing calamity forces us to look at other ways of doing things, to change. We need a healthy world to bring kids into, without that we're done, the last chapter in the book. So what is healthy? What is health? There is a Chinese definition, health is the flow of Chi through the body, the proper distribution of nutrients and grounded energy for every cell. There is the Iberian farmer's definition, all things working together in great abundance and variety, centuries-old symbiosis that can withstand droughts and floods.. There is the modern medical definition of health: no complaints, no need for a specialist or to bill medicare.

Our biome, the old planet, is not healthy, she's got a million issues and needs for specialists. She's losing her species, she's being eaten alive by the dominant species. This ravenous feast of resources is carried out mostly by the oil and gas industry, which is the subject here, but such a big subject that it's all subjects. The subject needs a

wide look. Ultimately we are looking for a shift in perspective that can spread fast enough to save us from the worst. Greta Thunberg is trying to do that, but how effective is she? What is her recipe for rescuing the planet? I hope it doesn't rely on people cooperating. Here we're interested in an overview, to see what's going on and where the changes have to happen. We don't need all the information in the world to do this, the data is everywhere you look.

*

The garden represents a circular economy, one that produces no waste because everything works together, from the micro to the macro and back again. Many human societies are still like that, have to be to survive. The original New England colonies were like that, as were the native villages; garbage was unheard of. Pig shit was a problem, not the forever chemicals that we're leaving for the kids.

Petro-state capitalism, which has replaced the garden economy, relies on waste products. We now enjoy a linear economy, where plastic collects in the ocean, Carbon collects in the sky, money collects in off-shore bank accounts, forever chemicals collect in the soil. The greatest champions of the linear economy are the ones who profit most: oil and gas. Because oil and gas control the economy, we are losing the garden. Future people might not be happy about this as the outdoors becomes uninhabitable, the populations barely hanging on.

The approval of future people is not sought by oil and gas, so this situation will extend into the future, as long as oil and gas can possibly hang on to its customer base, which is basically everybody. Exxon has lost half its valuation in a few

years, so hopefully that's the trend, less oil and gas. But that isn't the trend; we are burning more and more oil and gas and coal, not less.

This is the wish of the money invested in oil and gas, which after 100 years of economic domination remains a substantial, controlling part of the world economy. It is the wish of future generations to reverse this, to live in a world where oil and gas doesn't dominate the economy, which is the only possible world that doesn't include our extinction.

*

The paradise of the future will be an artificial, man-made environment, protected from the wild weather and droughts and deserts and floods.. a technological oasis that can create water, food, livable temperatures, electricity and everything else the walking mammal relies on to raise a family and continue the species. Outside it's 132F and arid, a hostile environment. This indoor biome will resemble real nature in the way a postcard resembles a famous painting, that is lacking a certain level of detail. Imagine being stuck inside that with kids running around. We will miss biodiversity, nature as it used to be.

Who gets to do that, to live in an artificial environment? That's the ethical dilemma of this particular future. Is that what oil money buys you? Imagine living in a private oasis while everybody

else starves. It would rob me of sleep.. I would have to take a tranquilizer every night.

Of course we live in an artificial environment now, usually inside at room temperature (inside a car is inside). The middle class ideal is freedom from domestic labor, with fabulous machines under warranty to wash and dry our things and drive us everywhere, if the car's in the garage we don't even need an umbrella. The walls are alive with electric outlets, the gas is piped in from rural Pennsylvania, and what could be better?

Ans: a living situation a little less dependent on the grid, a little more self-sufficient. Houses that don't only consume resources but produce some too..

Since the Rockefeller dream of the mechanized, medicated life is not sustainable for even a minute, being based on mined hydrocarbons, we must find other ways to live our day to day, how we live and how we get around. This is something people must choose for themselves, it cannot be forced on them. Any coercion will drive right-wing panic and another trip to the gun store. People have to want it but few do.

Let's imagine self-sufficient home environments, in off-grid dwellings that could be called a garden, with plants growing everywhere in and out, and cars and boats that get their energy from the sun. Plants for oxygen, food, sanity.. houses that don't create garbage, that tap into the temperature of the earth. Any survivors of global warming will probably live in this kind of circular environment,

like on Mars, or like Michael Reynold's Earthships in Taos. Or like homesteads used to be before oil and gas. (homesteads burned a lot of coal and wood). This approach should be available to a broad range of the population, houses becoming more self-sufficient, communities that share resources, which will all be necessary to survive climate disruption. But what would drive a desire for this?

People collect assault rifles out of fear. Do they collect solar arrays and micro-biomes for the same reason? Do they put pipes under their houses to connect to the temperature of the earth in case the pipeline shuts down or the power goes out? The AR15 is an imaginary solution to an imaginary problem, but the self-sustaining, earth-friendly practices are complicated and take an effort. It's not about toys or God, or fear of the government. It involves transforming one's relationship to the earth through changing consumer habits. Re-education is an Orwellian word, but that's the program here, speaking for myself. I'm wallowing in ignorance about important stuff. My panic response is to grab books and read them. I put the knowledge into a book like this so I don't forget it, also to sift through what we know, to see what's going on, look at our mechanized society from different angles. One glaring road sign is the house, the consumer's paradise, which hasn't been rethought since the 1950's when it filled with appliances. With modern technology, houses could function with or without the grid and foster a less predatory attitude towards the planet.

Such houses would need a higher degree of maintenance than what we've gotten used to on the grid, and levels of expertise about electricals, battery hookups, growing cycles, and these are not investments people are willing to attempt. The best approach is bit by bit. I'm starting with a heat pump hot water heater to replace the gas one. Then replace the furnace with a geothermal heat pump, and replace the gas stove with electric, suddenly I'm not a customer of the fracking industry. I have reduced the demand for natural gas, demonopolized to some degree.

Increasing the capacity and the demand is the default strategy of oil and gas. Reducing demand reduces dependence. Oil and gas are emphatically not interested in reducing demand or dependence, that would be a betrayal to their stock holders.

But we are satisfied customers, happy as clams in the mud, the mud being the energy and distribution grids. There is no other way for the vast majority of Americans. We/they drive don't walk, eat meat from feedlots, avoid the broccoli, happily burn as much gasoline and discard as much plastic and consume as much animal flesh and conspiracy theories in our lifetimes as we can get away with. This isn't great preparation for what is to come. You can't tap us on the shoulder and point out the error of our ways, you will be dismissed as a Communist kook, or worse, a Liberal. We have guns and do not subscribe to the New York Times. We have been the targets of relentless propaganda, in fact the main target of radical outreach from oil and gas, through churches, gun clubs, campaigns, schools, Facebook, Twitter, FOX News.. we are highly partisan for white power and hungry for the spin of puppet-master Rupert Murdoch and his demented employees at fake news programs.

This outreach, which is considerable, legitimizes incessant fuel burning by downplaying it, by normalizing it, (the 'plant food' argument, describing CO2) and thusly, as a direct result, environmental disaster is on the front page of the New York Times almost every day. Besides the climate apocalypse unfolding, this outreach has created the deep divisions in our country, has empowered an epidemic of stupidity and falsehood that is causing real harm on a number of fronts, from the anti-vaxers to the death of prairies, to the exploding rigs off of New Orleans, to future weather events that will

wipe out cities, to oil and gas stooges strapped into senate seats.

We know we're in the middle of a rapid decline in the livability of the planet. Some people give us 20 years before we all starve to death, due to top soil erosion, drought, everything just drying out and burning up, aquifers drained, then floods.

The most vulnerable will perish first, though we, not they, created this mess. The properties of CO₂ have been known since 1850, but we've let oil and gas control the conversation and the damage is done, every species on the planet is in danger of extinction, including ours. Ours is causing the extinction, committing suicide. Our country produces over a quarter of all greenhouse gasses, we are the problem. Destroying forests and oceans is a biome-wide speciescide, which is what happens when we care more for our quotidian comfort and abundance than for the future. Any way you say it sounds like a cliché, but we're robbing from the future, which belongs not to us.

Oil and gas ensured this future, carved it in stone through relentless monopolizing of our basic human requirements. That's how the industry controls the world economy, and why 84% of energy is still produced by combustion of fossil fuels. The point here is that these needs can be met in non-fossil-fuel ways, above-ground ways through use of plants, particularly hemp, and solar farms along the highways, there are solutions everywhere, new ones every day. But oil and gas are making the case that any move off of a fossil fuel economy will cost jobs and income, particularly their's. In 2020 they gave \$46 million to the Republican Party to get this point across. Koch Industries and the American Petroleum Institute have spent billions

getting this point across. Mitch McConnell has made.. well let's stick to the subject.

Oil and gas got their paradise, which looks a lot like an Italian-built yacht with a heated pool. And a jet to get to the yacht. This mitigates the problem of rising sea levels and temperature variations and the collapse of biomes, which oil and gas doesn't have to think much about.

As we speak, Sen. Joe Manchin sits in his yacht on the Potomac, impervious to rising seas.

2.

HOOVER, ROCKEFELLER, MELLON and the Rise of the Monopolies

The 1930's was a time of deal making. Roosevelt needed his social programs, industries needed monopolies. Oil and Gas, Big Sugar, Agro-chem, Hearst Media (Big Paper), they would provide the votes for social security and medicare, but they needed cooperation from the White House on their goals. These goals, to create a petroleum-based economy, such as we enjoy today, were established by mutual consent among these oligarchs, and job # 1 was eliminating hemp, the competition and threat to the new petroleum-based economy. Andrew Mellon was the treasury secretary under Hoover and held patents on converting oil by-products to plastics through control of Dow Chemical. The plastic is now everywhere, hemp nowhere. The industrial might that lined up against hemp turned this staple crop into a controlled substance associated with drug addiction and crime, thereby opening the infinite market for plastic products. This is the world we

now inhabit, which, looking around, includes monoculture, gas addiction, climate change, high-fructose corn syrup, and total dependency on the grid and large appliances.

The main victim, the abused and exploited, is the planet we inhabit. It is being transformed into a wasteland as best practices like growing hemp for its thousands of applications, a miracle plant, is crushed by greed and power. In 1937 FDR signed a bill that landed on his desk, outlawing hemp, eliminating the crop as a threat to the monopolies that still rule the economy.

To achieve this transformation, the industry lobbyists would swarm the halls of DC and state capitals, bullies in the china shop, since they controlled the senators and could dictate policy as much as the president could. The hemp industry, with no lobbyists was an easy target. The general population was being manipulated and cajoled and baited and hooked, one example is Harvard scientists publishing a paper claiming sugar is good for you, that fats are the problem. The sugar lobby sold a lie, sugar consumption soared, and diabetes became a boon to the petro-chem industry for selling insulin! The customer base for petro-chemical medicines grew nicely, and the competition, natural remedies, healthy lifestyles, went by the wayside. Petro-Chemical Agriculture grew the corn, and by the wayside went family farms and best practices.

This was by no means the worst thing that happened. Hemp was a staple crop with ten thousand uses, in the wild it fed the birds, bees, fauna, but it was classified as a controlled substance, and suddenly all the hemp farmers became criminals. The prisons filled with victims of the War on Drugs. The birds and bees lost their source of food, the cows were force-fed soy beans and corn, all to please the most powerful lobby: Oil and Gas.

The by-products of oil refining needed to be injected into our physical world, plastics proliferated, every niche served by hemp was now controlled by oil and gas. Our puffy nylon jackets will not biodegrade, if they were made from hemp they would biodegrade. This happened to every aspect of our lives, in every landfill on every continent filling with the dead ends of our linear economy.

As Americans, we lead the way on consumer hunger for comfort and entertainment and transportation and appliances and leisure. All day and night we happily combust and discard the oil and gas products, whatever our political leanings might be. We vote by shopping.

One can easily imagine a lifestyle that replaces oil and gas products with hemp products, that we could go to the hemporium and pick up anything we need to go about our lives.. but that option was made illegal. It is now being legalized again, but the shopping experience is still oil and gas. This is monopoly capitalism, whereby a class of wealthy shareholders have zero regard for the environmental damage the vested industries cause. Anyone claiming that global warming is real gets a quick dismissal and is not invited to the parties (testify!). This class has been in power for 130 years, founded by wildcatters and now in control of the government. Oil and gas is subsidized, the dependence is encouraged, and now the war in Ukraine. Oil and gas on the attack.

This country has been from the beginning nominally opposed to monopolies, Thomas Jefferson and James Madison fought hard and unsuccessfully to include anti-monopoly provisions in the Constitution as trusts were seen as a strong limitation on personal freedom. The fight against the Morgans and Rockefellers led to the breakup of Standard Oil, but fossil fuels remains our dominant energy source, making it a monopoly.



3. GAS ADDICTION

Overheard on the Nantucket Ferry: a young man backwards baseball cap describing his post college business plan. It involved shipping a snow-cat, those huge Diesel-guzzling winter slope-groomers, to Colorado and he and his partner would service rich people's snowfall. Tamping it down. After Nantucket he was off to Maine.

Such a fine, ambitious product of an expensive education. How many errors of judgement can you spot? Let me help, since my POV is more slanted than your's. This young man, like many of his peers, has incorporated the burning of fossil fuels into every aspect of his life. Business, personal, family, vacation, transportation, they all involve the burning of fossil fuels. He's not setting up solarfarms for poor neighborhoods. He has no need for sustainability because global warming doesn't look that bad. Plastic waste is manageable.. (grabbing a plastic water bottle, taking a few sips and leaving it to fester on the bench). His children will share his values, if he ever gets a real job and attracts a mate, but they won't have snow to

tamp down. The kids will have wildfires and unbreathable air, soaring temperatures yes, but not much snow.

To be fair it's difficult to do anything that doesn't involve burning fossil fuels, hence the addiction, and the crux of the problem. Also my problem as a writer, this crux spreads everywhere and it should all all all be looked at. Oof. That's a lot of looking.

Comanche children are taught to live with nature, we are taught the opposite, that riches lie in the exploitation of nature and the physical planet, dividing up a corpse that's still alive. That's also the crux of the problem, since the world reenforces this ethos, to ensure the customer has access to the necessary machines and fuels that power modern life. Who questions the implications? Mostly youth, so many looking askance at the burning planet they will inherit. That number grows as the climate crisis grows. Also growing is the feeling we're on a run-away train, which I've had for 25+ years.

Under state capitalism, US style, powerful industries exert pressure on the government to steer the ship in direction favorable to them, and so marijuana was classified as an addictive drug, since it threatened the petro-pharma industry. Exterminating the threat of a hemp-based economy was job one, along with preventing regulation, for the oil and gas industry lobby, and addiction to oil and gas was government policy, the more burning the stronger the economy.

Gas addicts burn gas for whatever reason, business or pleasure, and the Republican party, which is bought and paid for, though not exclusively, by oil and gas, wants them to burn more gas and oil and jet fuel and to discard more plastic, a refining by-product, and use more fertilizer and pesticides. This feeds the banking system, the investment portfolios of the wealthy, whose money is in the same banks that are feeding the flames. For 100 years oil and gas has ruled Wall Street by monopolizing every solution to life's aggravations and limitations. Meanwhile in DC, rocking to the flames of disaster is half the Senate, with lipstick coated, reliable campaign contributions from oil and gas. And they have the sub-committee votes on oil and gas subsidies. This circular movement of dark money, from subsidies to campaign contributions, powers the system that keeps the energy monopolies in place. The voting customer gets cheaper gas and the warm feeling that gasoline is an unlimited, benign resource. Vroom! Oil and gas gets half the Senate and their subsidies are safe for now. And it only cost oil and gas 1% of the subsidies in campaign handouts.

Further generations get the consequences, alas. Young vibrant entrepreneurs calculate profits from oil and gas, with no thought of the consequences that their offspring will face. Meanwhile this country consumes fossil fuels at a far higher rate than the rest of the world.

*

On Long Island, manhood is measured by the height of the hood of your pick-up truck. Wealth is measured by how low to the ground your sports cars sits. The compromise for those not sure if they want to display their manhood or their wealth is the un-muffled sports car. Everybody within earshot of the rumble will get the point: rich and manly! A 4-wheel hog.

The sub-matrons display their wealth and social status by driving huge luxury SUVs everywhere, often with a small dog. Walking this little dog provides outdoors experience and exercise.

Pandering to the yearnings of the gas addict, the car is as much an object of desire as anything, an extension of power through the gas pedal, like the trigger of a gun, romanticizing mobility and kinetic potential, individual empowerment, while providing room temperature pampered safety and autonomy, same as inside a house, except with a better sound system, and better design, and more lit-up buttons to push; a seductive, effortless environment for the consumption of fossil fuels. People, as I generalize them, are always inside a car or inside a house, except when the gas grill is fired up for the weenie roast. Teenagers are encouraged to worship automobiles and motor sports as they play video games, half-prone on a bed. Fossil fuels have conquered every aspect of this market, from the materials to build the house and the machines, to the mined resources burned to sustain the comfort level. This dependence is passed along through generations. It's an American value: mechanize! plasticize!

From the dawn of time there was no difference between function and physical activity, between surviving and bodily movement. To go somewhere one had to walk or paddle, to eat one had to hunt, to survive one had to fight and farm. When oil and gas replaces human effort, humans start to weigh more, need treadmills, jogging shoes. More plastic. More distributed energy. More inside. More glucose in the blood, plastic on the curb, Carbon in the sky. Bigger pants and power plants. Lots of sofa time.

Young Arabian princes collect Maseratis, kids spend their vacations roaring around in power boats and skimobiles and off-roaders, weekends hauling these toys around behind SUVs, always an engine going, always temperature controlled, with great plastic canopies around the flying bridges of motor yachts, for the wealthy retired folk. That's the arc into the future, more of that, according to a simple extrapolation. These people won't be biking, sailing or canoeing. There is physical effort, many of these people are gym rats, but none of the effort is useful in the sense of replacing fossil fuels with human effort, burning calories not gas as our bodies require.

The whole point to life, for many of us, is to mechanize the useful stuff as much as possible, the elevator instead of the stairs, standing on escalators, riding on mowers. On vacation, lounging in the stern of a motor yacht, kicking up a giant wake to rock the kayakers as combustion of mined, refined, pipelined, trucked petroleum does the work, turns the screws, moves mountains of water aside on an aimless overpowered cruise. That defines luxury, power at our fingertips, but like too much cake, it has turned into a bad habit.

Leisure is useful, especially if you work

hard. It is totally elective, your choice, and shouldn't be mechanized. My advice is to get a small sailboat, a bicycle and a kayak, for when the wind don't blow. Large boats and cars and jets are about sitting and transferring Carbon from the ground to the sky, about never looking back at the damage being done. But the physical life, the rejection of the gasoline assist, is the key to wellbeing. Only mechanize when necessary. Take a hike, ride a bike. That's not an order, it's a suggestion.

*

Exxon Mobil is working on biofuels from algae, which should be a carbon-neutral fuel for Diesels, which can also be made from hemp oil, so that would be a net zero solution to the massive number of Diesels engines filling the atmosphere with crap at any given moment, but I wouldn't count on that replacing the mined hydrocarbons as long as Wall Street and Main Street are both addicted to gas. This kind of change is nearly impossible for society, which has to go backwards as much as forwards to get out of this climate jam. Where impossible meets urgently necessary is a point of possible stress, the squeaky wheel that alerts us to grave danger..

The reason cancer cells are so lethal is that they can override the self-death mechanism that ensures that older cells disappear before they

cause damage. Oil and gas is like that, impossible to kill because of all the thousands of ways it has injected itself into our lives the world over. There's been no way to kill it. Senator Joe Manchin is a great friend to coal, trying to do what he's paid to do, which is to block energy innovation and change. These people mean it, they don't care that the planet is burning up. Sen. Joe is standing at the gates of hell beckoning us to get closer to the fire.

In Texas, the regulatory body for oil and gas is the RRC, the Railroad Commission, the members are chosen in state-wide elections heavily funded by the industry they oversee. To counter this, greens and civil rights lawyers would have to come up with millions to compete with the state industry for the votes for any kind of limitation. I call this state capitalism, US style with industries, almost always oil and gas, controlling the government, controlling elections! to assure freedom from regulation. To re-verse this requires major adjustments, and with the headwinds of resistance blowing from the propaganda farms of oil and gas, the pipelines of dark money filling the senate chambers, we greens have our work cut out. Oil and gas is fully entrenched in all levels of government and society.

This volume is my humble contribution to this effort, seeing how this transformation to a different, unmonopolized economy would work. These efforts must be put on fast forward to mitigate (no stopping it!) the damage caused by the combustion of oil and gas. Red alert! Double exclamation point!!



4.

RIGHTS VS RESPONSIBILITIES

FREEDOM

Claiming rights without responsibilities
The linear waste streams of capitalism
Demonizing Political opponents

There are a zillion creatures in the garden, mostly in the soil but also in the trees, skies, and grazing on the ground, grazing on the the grazers, and then there's us. We all need to eat. The unrestricted search for nourishment, to seek out something to munch on, whether you are a microbe or human or forest predator, is a fundamental freedom, the main occupation, freedom to exist, to do what's necessary, which includes freedom to roam, to partake of the garden. It's hard to seek nourishment sitting in one place, or at least it used to be. This right to roam can be revoked by another creature seeking to exist, so this freedom to exist is limited by mortality, by Darwinian conflict, but the

core value, the liberty to get up and go somewhere that is denied prisoners and slaves, trickles up the food chain to inform our civil rights, to free us. We have a right to avoid mortal danger, except where heroism and patriotism is involved. These rights exist in the court of reality, though survival, unfortunately, often goes to the violators of this right. To avoid being eaten is inalienable, no creature submits voluntarily to being eaten, though plants do. This lack of submission is the basis for the inalienable rights claimed in the Dec. of Ind., our founding document: life, liberty and the pursuit of happiness and a quick bite.

The tastiest ducks forage their own food, eating what's in season.. that's a good basis for freedom, whereby the responsibility is to enjoy good food. Force-fed ducks, ducks given a predetermined amount of duck food at 5 AM, don't taste as good.

There's a lot of talk about my right to this, my right to that, but what are rights? The Bill of rights protects you from the government in certain areas, but it doesn't bestow rights. Those are supposed to be inalienable, unwritten, God-given. Government can't violate those rights, you can go where you want, think what you want, even carry a gun. And if you cross the line, you get a jury to decide your guilt or innocence. So what are the limits, where does doing what you want to stop? Where does responsibility start?

'Autonomy has its limits where it involves threat to others' JS Mill. The limits of freedom are violations of other people's freedoms, which is why you can't steal a peach, because it violates the owner's rights to own stuff like the ground that the peach tree grows on. In the Prophecy, everything, the whole garden, belongs to God. Eve steals God's apple and loses her autonomy in an ugly eviction process. Oil and gas don't care about the garden, only about oil and gas, which is free for the taking. The planet doesn't own itself, it can be violated at will by capitalists and socialists alike, as the basis of economies and ultimately the fetid wasteland devoid of humans that it will become as a result.

Autonomy is the ultimate goal of oil and gas, but there's that pesky threat to others, in the form of catastrophic climate change. Those threats should limit one's freedom to act on the threats, the threat is suddenly a social issue and the authorities get involved and with the clang of a jail cell, or in the case of oil and gas, regulation and clean-up. Supposedly such a looming disaster should count as a threat to others and autonomy ceases for oil and gas, but it doesn't cease, oil and gas enjoys autonomy as we speak and doesn't clean up anything.

Burning fossil fuels is a threat to others, billions of others, all the future people. So the right to burn fossil fuels comes, in a perfect world, with a responsibility: find another way to get around, like an electric car bus or train or even a bicycle. go hemp!

For oil and gas, this is a nightmare, alternate transportation and materials is a threat to their monopoly

on getting around and their domination of things. But they haven't managed to stop the trend to electric vehicles, or the bicycle industry, or the walking shoe industry, or the resurgent hemp industry, not for lack of trying.

Mask mandates are supposedly violations of individual rights, an example of government overreach, though I don't see it. I see government working for the general good and public safety, which is what the people in government are paid to do. Unfortunately, their government paychecks aren't the only way they get paid, and often loyalties are divided. Many parts work for themselves, part of the system that keeps the elites in power, the entrenched entrenched. The term 'deep state' refers to this entrenchment, which one can never know much about, so like Hillary's emails, the deep state can be associated with leftist or right-wing conspiracies without need of evidence. Mask mandates are also subject to conspiracy theories, deep state plots.. whatever gets a spark of antagonism, a hormonal response, out of the red hats, or outrage from the liberals.

Rather than having leftist agendas, the deep state, the entrenched, exist in an ecosystem where oil and gas wields considerable power and has for a long time. The argument that filters through the propaganda machines is that Liberals, with their open minds, are up to no good, as symbolized by Hillary's emails, and this becomes the conservative platform, in the guise of traditional American val-

ues. To repeat a lie is to prove loyalty to a right-wing, ginned up cause.

Obamacare is a gateway to communism!

Regulation of oil and gas is the enemy of free-dom!

Mask mandates are like the

holocaust!Scientists are corrupt!

The election of Joe Biden was rigged, Trump willbe reinstated!

Repeat! Repeat like a drum beat!

Cannabis is a gateway drug!

Ban hemp farming!

This platform, the last two going back almost 100 years, is the fictional, dangerous world of oil and gas. It is so endemic, in every state capitol, every world capitol (with different players), the pro-paganda so effective, that college kids don't give a fuck. Apathy trickles down from the entrenched to the unformed. Four years in college and they don't get the message about climate and fossil fuels. It's not being taught. We've known the properties of CO2 since 1850, so this is worrisome.

Oil and gas take no responsibility for any of this. The recycling of plastic or the Carbon in the sky is not their concern, advertising the dangers of CO2 is not on their agenda, because their business model relies on linear waste streams. Those seepy, methane leaky, dead wells are a public problem while the profits are all private, and the oil is free. That's not a great deal for the planet or the public, but we have little say; for a politician, pleasing oil and gas is a better choice than pleasing the public, because the fossil fuel industry contributes more and puts in more lobbying effort than the public, and basically tells the public and the government what to think, who and what to believe in and vote for. You won't see climate change on the list of things they want you to do something about.

The home planet, meanwhile, with all its vast sustaining biological systems, can't get a word in edgewise.

This is what oil and gas wants: the regulation of society through monopolies and propaganda, and total freedom from regulation for themselves. They have wanted this for over 100 years, the entire 20th century was ruled by oil and gas. Russia, the former USSR, is oil and gas, the oligarchs are oil and gas. Soviet-style propaganda campaigns spew out from the mouths of radicalized conservatives and echo in the halls of power. This frantic energy swirled into an insurrectionist attack on the Capitol Building. It's going to get worse not better as oil and gas faces stiff competition from renewables and Trump tries to rise from the grave.

That's why you hear that wind turbines cause cancer and kill bald eagles. Or that society would collapse without oil and gas. Oil and gas is proud of the world they created, and the best part is that oil and gas is there for the taking, you only have to pay to get it out of the ground and to a refinery, the rest is gravy. And you don't have to pay the degraded planet back a penny, or even say thank you. And everybody needs the product, there is no viable alternative, and that's has always been the business plan of oil and gas.

Claiming rights without responsibilities is a traditional American value. Witness anti-maskers like Rand Paul, who assumes zero responsibility for the general welfare, total responsibility to his impulses. This attitude has a long history in this country, starting in early Boston, when Anne Hutchinson considered herself and her followers above the law, tied to earth by divine power that superseded the church and the civil, elected government of Boston. Hence the term 'antinomian', 'against the law', which connotes a personal empowerment, much like Quakerism. God's grace speaks through your impulses and emotions, so you must obey them, and since God is the only authority you recognize, this might put you at odds with the local magistrates. Anne Hutchinson was evicted from Boston, sent packing into the wilderness with all her children and devoted followers. Quakers met an even worse fate, some hanging from a rope in the town square.

Fast forward to the Covid epidemic and the anti-anything the government recommends. Evan-

gelicals talk directly to God. Trust is given to a fantasy website as the source of information for radicalized Republicans, suspicion given to the words of scientists and department heads. And now that's on the GOP platform, outrage at this violation of your rights to spread a pathogen. Reminds me of the right to fill the sky with Carbon, or to be driven down the highway drunk with a blindfold on.

The libertarian views that oil and gas evangelize borrow from this radical individualism, but instead of God's grace being the currency, it is replaced by share-holder value. Their prosperity doctrines put planetary health way down on the list of priorities, and making billions at the top, God somewhere in the middle; boilerplate capitalism. The John Birch Society, extremist anti-communist libertarians back in the 50's, was founded by the guy who built Stalin's oil refineries on the Black Sea: Fred C. Koch, whose fortune controls the U.S. Senate and many state legislatures. The list of Koch-funded think-tanks goes on for a while, all with patriotic sounding titles to lure the moderate (gullible) republicans into their radical ideology. This ideology is selective: free markets EXCEPT when oil and gas subsidies (\$38 billion a year) are involved. In their free markets, monopolies rise to the top like scum, take over the governments to prevent regulation, fill the halls of power with proven loyalists to oil and gas and the other commodities and monopolies. You prove your loyalty by repeating the lies from the agitprop outlets like FOX News. Rupert Murdoch is a strong supporter of this kind of gov-

David Koch was the Father of the modern GOP. As the Presidential Candidate for the Libertarian Party in 1980, you can see how many of his platform ideas became the GOP platform.

1980
Libertarian Party Policy Platform

PLANNED
FOR THE SUPREMACY
OF FREEDOM
AND CONSTITUTIONALITY

TO BE ABOLISHED:

- Department Of Energy (DOE)
- Environmental Protection Agency (EPA)
- Food & Drug Administration (FDA)
- Occupational Health & Safety Administration (OSHA)
- Federal Communications Commission (FCC)
- Federal Trade Commission (FTC)
- National Labor Relations Board (NLRB)
- Federal Bureau Of Investigation (FBI)
- Central Intelligence Agency (CIA)
- Federal Reserve
- Social Security
- We Care
- Public Schools
- Taxation

David Koch bought and paid for the GOP. He also funded the TEA Party, ALEC, Cato Institute, John Birch Society and Turning Point USA. His anti-American ideals are rooted in anti-Democratic aristocracy ideals of ancient Europe.

ernment that bamboozles and gaslights the governed for a neat private profit.

Right wing media like nothing better than to monopolize local markets, rural districts that mainstream 'liberal' media can't reach, and that turns like a pancake into political power and manipulation. Add to that mix the echo chambers on twitter feeds and you get, right off of the stove, anti-vexers, climate change deniers, over-mechanized, overweight Trump supporters with angry faces and red white and blue flying off of huge pick-up trucks. To this day I feel a little queasy when I see the American flag. Or the other Trump prop, the Bible.

Who can look at a Bible without thinking of Trump, friend of child-rapers and slimy Russian agents.

It's puzzling how few people concern themselves with global warming and grid-dependency among people I know. We are benumbed, but there may soon be need for alertness. Everything is fine until the stress comes, the wild fires, hurricanes, blackouts etc. and human needs rise as resources get scarce and expensive. The day of the emergency is not the best time to prepare for it. Very likely people will be too busy trying to keep their families alive, fending off death and privation, sometimes violently. This panic mode will add to the grim list of life threatening perils, so it's best to set up a social structure now that can withstand this stress.

The rich on their yachts (looking at you, Joe Manchin) will be in stealth mode, wary of a backlash against the moneyed elites that perpetuated fossil fuel combustion, those who profited from the lies. There may be a little anger and finger-pointing down the line.

We have all been witness to the propaganda campaigns that slowed action on CO2 emissions. Every car ad during the Super Bowl celebrates outdoorsy types who never leave their cars. There is quite a market for labor-saving devices, also for exercise machines. Dependency is a wished-for condition of capitalism, we are the account that uses the energy product and pays the bills. The switch to less-harmful, more abundant energy sources, something we should have done 100 years ago, has to go through us. Somehow oil and gas stays in business, because change is hard. Every GOP run for office is full of this ideological barnstorming, oil and gas is deeply entrenched in our social structure and would be harder to remove

than invasive knotweed in the back yard.

One must assume that the general population of the world is 100% self-interested, taking their lives down the simplest, least painful path, and that strategy rarely involves ecological concerns, though it should. The great rivers burp plastic waste into the oceans, but the people eat the fish of the factory ships. It would take an overview that few can contemplate to see the limitations of this arrangement.

The blame for these future disasters is spread thin, from multinational energy companies to suburban-dwelling customers, to the dwellers of vast Asian, American, African, European cities, almost all of which are on rivers or the sea.. but there's a lot of blame to spread. With a robust discussion of climate change underway, the big money still backs the drilling and fracking, and we still burn it at our end, and that's not going to stop without a major paradigm shift. It will take more than playing the blame game. Public will is a screaming contest, but under that has to be things people can do, in case they see the ugly light of consumerism, the robbing from the future, and want to change their basic habits.

Where's that car that charges in the sun? The VW of the future!

Do those electric composters really work?
Is the rain barrel full?

Are the eggplants in the bathroom ripe yet?

The house of the future will differ in many ways from the house of today, let's hope.



5. HEMP

One has to wonder how FDR got all those social programs, social security, Medicare etc. we enjoy through congress, what kind of deal did he cut with oil and gas, paper companies, pharma and all the other industries that control congress, not mention the anticommunist John Birchers and the old white men on the Supreme Court. The answer is tragic, he outlawed hemp.

80% of fabrics, clothes, linen, drapes, bed-sheets were made from hemp until 1820's. Now factories worldwide churn out clothes made of polyester fibers that are too cheap to be resold and are causing major environmental damage since they don't biodegrade.

The Diesel engine was invented to burn hempseed oil and other plant based oils.

The Declaration of Independence and the Constitution were both written on hemp paper. Washington and Jefferson grew hemp.

Wild hemp feeds the birds and bees and nourishes the soil. The last commercial market for hemp was for birdseed. Even that was outlawed, but since the birds and bees thrive on hemp, eradicating the plant was a rather heavy blow for the avian-apian population.

My main use of hemp has been a sip of hempoil, and a bit on the skin to fight cancer, pot of course, and next time I buy a T-shirt, or toilet paper, you can guess what material it will be comprised of. However, the potential uses, the amount of consumables that could be replaced by hemp products, is staggering. Its only real competition is bamboo. Apparently skyscrapers can be built from bamboo. I have bamboo toilet paper, and sheets.

Not long ago, hemp was everywhere, in the ropes, sails, oil, taking great ships all over the globe on the power of the wind, going into overproduction during naval wars. Now it is rarely used, and the reason is that oil and gas did not like the competition. Oil and gas killed hemp and replaced it with oil and gas, and it was ugly.

What happened with the hemp industry is another extreme example of social manipulation and oppression and betrays some more troubling American values. Hemp growing and processing, intorope, fuel, cloth, cellophane, batteries, whatever you need, was a terrific way to demonopolize soci-

ety, giving life blood to small farmers and manufacturers, but the monopolies said no. Hemp was linked to narcotics and that was the end of it. Roosevelt succumbed to the demonization of weed, it's probably how he got his social programs through, by bargaining with oil and gas. FDR through an act of congress outlawed hemp in 1937 with the Marijuana Tax Act. Draconian drug laws, many written by Nelson Rockefeller, of the oil and gas monopoly, put Black people in prison for decades for possessing a joint. White kids like myself seemed to get a pass.

So because of one strain of the plant is high in THC, a harmless non addictive enjoyable enzyme, the birds and bees lost their go-to wild plant, and cotton and synthetics dominated, as they do today. Cotton was king for hundreds of years, However, a look reveals that hemp is irreplaceable, there's nothing else like it, and it has to come back. The tragic mistake has to be corrected, on a worldwide basis. That's the lesson of the history of oil and gas..

Oil and gas wanted a total grip on every aspect of society, including its conditioning and politics, but mostly its consumer habits, transportation,

vacations, medicine, agriculture, cloth, getting high.. in order to create demand for every by product of oil refining. As the anecdote about the college grad illustrates, as the rising CO2 levels illustrate, as the plastic waste illustrates, as the pill epidemic illustrates, as the prison population illustrates, and the dead prairies illustrate, they have been totally successful. That's why your clothes are made from polyesters and cotton not hemp, why Diesel fuel comes from crude oil, not hemp. Why the plastic bottles are made from refinery by-products, not hemp. The opioids that destroy families are competing, successfully, with cannabis, which is basically a harmless, demonopolized weed.

The generals in the war on drugs put marijuana in the same class as heroin, jumping on the fact that a few strains of this weed induce giddiness if smoked [testify!], and ran with it. They first targeted jazz musicians in New Orleans, eventually creating a prohibition economy that arrested mostly black men for marijuana possession, filled the prisons and exploited the forced labor and shut down hemp farms. Hearst papers blared that reefer madness led to sexual crimes and communist sympathies. Outlawing this menace in the name of improving society, with the approval of well-funded think tanks and late Ronald Reagan. Anti-hemp laws transformed in five decades into a powerful force to keep oil and gas in power and the Black and Latino populations out of it. This social engineering is on the list of great crimes of oil and gas, along with wrecking the planet and poisoning conservative politics.

Those men behind bars could have been, could still be growing hemp and processing it into useful things that people pay for, if they had a choice, if society was like that.

Meanwhile, speaking of drugs, Big Pharma was addicting everyone to pain pills and speed. Only recently has there been any judicial oversight of this callous, shareholder approved business plan, to hook people indiscriminately on opioids and amphetamines. The Sacklers had to pay a few billion, the cost of doing business. Meanwhile, who languishes in state prison farms? Not Sacklers, ever. Languishing and laboring are the prisoners of the war on drugs, a war they weren't fighting.

Bringing back hemp should be easy, I can think of twenty business plans that get hemp into people's lives, into their toilet paper (hard to find hemp toilet paper, that shouldn't be), towels, packaging, garbaging, fuel (hemp biodiesel), clothing, shoes, sponges..even hemp-fed beef and chicken. My retail idea: tony stores called 'East Hempton' 'South Hempton' etc. that sell all the hemp products. Come in for toilet paper, leave with new sandals, some pot and a capacitor to power your home.

The Amish are growing hemp instead of tobacco. I would love to go into business with the Amish.

Hemp is a commodity. There should be a hemp exchange.

Bees love hemp. without bees we all die. Without hemp bees die.

Hemp must avoid the bad habits of monoculture, be grown with other ground crops like beans, in rotations that sustain the soil. If hemp could be grown on ruined, dead soil, bringing it back to life, that would be optimal. Hemp replenishes, let's make sure there's a market for it.

“I have no doubt that in the near future Reefer Hemp will replace petroleum additives in both engineering and medicine” -Nikola Tesla, forgetting for a moment that Rockefeller and Morgan were in power.

Prior to prohibition in 1937, wild hemp grew freely across North America and was a natural part of the diet of all grass-grazing animals, including cows, goats, sheep and bison.

Hempseed fed birds in the wild, was harvested and sold as birdseed. When oil and gas irradiated hemp, nobody shouted 'hey! That's bird food. What are birds gonna eat?

In 1935, 116 million pounds of hempseed were used in America for paint and varnish.

Hemp was regulated out of existence by an industry highly averse to regulation. This might mean that the hemp revival has a good argument for not being over-regulated by a bunch of libertarians.



6. HEALTH CARE

Bernie Sanders tells us that health care is a human right. I would say that health is a human right. Any creature has a right to be healthy. But many of us fight horrible illness. As we remove ourselves from the garden, the more prone we are to medical problems, from eating too much or too little, a variety of causes of bodily malfunctions. The senator is leaving out the deal and the problem. The problem is rich people, whose taxes are supposed to finance the health care, don't want to pay for other people's health care. The 'haves' have no control over what the have-nots do, what their habits are, and therefore feel no responsibility to pay for the consequences of what they assume are the bad habits of poor people.

Rich people are conservative because they don't want to lose what they have accumulated, in fact they want to accumulate more, which happens when wealth rises to the top, rather than trickling down. Health care, medicare etc., is a trickling down of wealth, it is subsidized, sourced from tax revenue. Conservatives who vote to subsidize oil and gas vote against expanded medicare. Oil and gas is the bedrock of our

economy, they say, but if you look at it, health care employs a lot more people than oil and gas, so that argument doesn't wash. Health care is jobs, skills, dignity, unions. Though a lot of the strained budgets go straight back to the top, to the shareholders in Big Pharma and MedTech, enough work is being done, enough salaries supporting so many families, feeding into Social Security, that you could call the health industry a gateway to the middle class, a redistribution of wealth through taxation of wealth and a hard day or night's work saving lives while keeping a smile.

Poor people have traditionally been more connected to the earth, more dependent on natural processes, and more likely to pass along skills, so before oil and gas came along, they had the good habits. Human health is linked to soil health, as anyone who comes from an ancient culture knows.

HEALTH CARE HAS LITTLE TO DO WITH HEALTH

Illness, inflammation, disease, can often be attributed to blood sugars which feed inflammation. Cancer cells gobble glucose. Yet how many cancer patients are told to lay off the carbs and sugars? I went through a year of heavy chemo and radiation but was never told to lay off carbs and sugars. The

treatment didn't work because my tumor was telling me what to eat (spaghetti, fried rice) and drink (wine, whiskey).. Now I'm off carbs and sugars and wine and my condition is improving. I can't help but suspect this omission to prepare the patient for treatment through diet is related to runaway health care costs if you multiply my case by a few million. I apologize to the people of New York State for the expense of my treatment.. I'll try to make it up to you. Maybe by writing a cookbook of cancer recipes, that could save a lot of lives. [That can't be an original idea.] Unfortunately there won't be wine to go with the dinner.

The food aspect, the self-treatment, has no funding or billing associated with it so it doesn't exist in the medical/ industrial ecosystem, except in the person of The hospital Dietician, whom I didn't talk to till 3 years after my diagnosis. She should be consulted by every cancer patient. Uh oh, that makes too much sense. A diet that addresses the properties of cancer, its appetite for glucose, crosses over into the expertise of the very busy oncologist, so the oncologist blocks it out (I'm speaking about my oncologist, you may have had a different experience). This is a financial model, the industry doesn't want people taking medicine they can get in a vegetable store.

I don't know if you get an anti-cancer diet if you are in the hospital with cancer. It's a bit of an effort, no carbs, sugars or fats. Maybe a lit candle and some music would help.

There is not much incentive within the industry to reduce astronomical costs of special care, but adding food-sense to the treatment of cancer patients would give them a better chance to walk away healed, rather than feet first after years of expensive treatment.

To balance rights and responsibilities, a deal between the insured person and the insurer should be spelled out and signed by both parties (not going to happen, but one can speculate). Here are the responsibilities that go along with this 'human right' to health care. Initial here, sign here, please notarize. Then the rich folk might be less reluctant to pay their fair share into the system. The following is a stab at an agreement between an insured person and their health care provider, whether private or public. Rights come with responsibilities, and here they are spelled out:

1.

Over-mechanizing, driving instead of walking, means that the calories one ingests don't get used. They should be burned in functional activities like walking to the store, tilling the garden, anything physical that accomplishes something. Otherwise this function is granted to the oil and gas monopoly through a purchase of their product, by filling up the tank and driving everywhere. Sitting in a car instead of walking or biking keeps the unburned calories in my blood in the form of glucose which feeds inflammation.. it's

better to stay as active as possible. We are the walking mammal and must walk, must stand up straight from the ground.

The lymphatic system doesn't have a pump except the moving body. Since lymph nodes clean your blood, the more activity, the cleaner the blood, the less crap, like bits of genetic material, floating through your veins causing trouble. Debris is zapped by powerful lymphocytes and expelled through kidneys. I don't know the details.

Sometimes, walking on an errand I find myself stooping over, shuffling my feet, shortening the length of my stride, getting closer to the ground. It is then that I remember Robert Mitchum and I pull my shoulders back, take deeper breath, stroll along with momentum, and feel a little less like death.

2.

Overindulging in carbohydrates and sugars, drugs or alcohol, or even gasoline (jet fuel, Diesel), These are all detrimental to health, which I am making medicare/ medicaid/ private insurance responsible for. Anything detrimental to the biome (it's all biome) is detrimental to health.

Cancers are anaerobic growths with damaged mitochondria that eat glucose through fermentation, without needing oxygen, so to discourage cancer is to stop feeding it. No wine, no bread, no dessert, no noodles. No rice. No soda pop. Lots of raw garlic! Doesn't it sound wonderful? Oxygen flowing to every cell through nitrous oxide in the

blood, that's what you want. Chemo and radiation will probably not kill a tumor that is being fed by glucose. On the other hand, cancer will not invade a cell which is well oxygenated, especially if there is less blood glucose to feed off. Keep the mitochondria happy and they'll keep you happy.

There's another thing: ill health creates plastic waste. Those catheters do pile up. One guy in a wheelchair used one catheter over 4 years.. and yet medical logic says to unpack another one and another one, and each is in a plastic pouch with a few accessories. It's great business for oil and gas when you multiply one bladder relief times millions.

And another thing: the medicines dispensed through the hospital/ health care system are petroleum based, not plant-based. Plant based medicines, dietary discretion, can improve health and healing.

Plants are the key to health. Every plant is anti-inflammatory. Oil and gas took plants out of health-care, patented the active ingredients and synthesized the medicine through chemistry, creating petroleum-based products that dominate the medical market. Since this industry is highly regulated by the FDA, one can infer that this system is approved by public and private sectors, with the public, the politicians, receiving support from the private, Big Pharma.

Plants can be gaining or losing energy, and that energy is stored in vibrations, frequencies. Many frequencies, not just one. A higher frequency means more energy. (?) Consciousness takes energy to accomplish, so higher energy equals higher frequencies equals higher consciousness.

But food is medicine, or poison; what you eat and what you do determines how your body reacts to the numerous pathogens that assault our bodies on a daily basis, from inside and outside.

Which is why ruminant cows have wisdom far beyond our own.

One thing that keeps coming up: when in ill health, you cannot just accept the word of a specialist, you have to figure things out for yourself. Analytical skills can be useful, also a curiosity that constantly squints at the details of life. It takes a while to make a useful assessment of your own condition, there's a lot to learn about the body and a lot of total bullshit that specialists rely on and never question and lay on you at the expense of common sense. More likely they are right and you are wrong, but not necessarily. I am amateurishly gathering info from a much broader, less entrenched view, more general, more open to something crucial coming along, like diet, or a new cancer treatment, and absorbing, acting on it.

I have a rectal tumor. Rather than taking more chemo/ radiation, which didn't work, I'm trying to starve it by avoiding sugars and starches. My

medicines are currently Beta-glucan, ordered on line, and Turmeric, some mushroom extracts, alkaline water (I've been told that ingesting baking soda can increase alkalinity of the blood. Cancer likes acidic blood. Unfortunately when the cancer cell finds itself in an alkaline environment, it kicks up a fuss and reproduces like mad). And Kofactor, which stops the cancer cell's habit of immortality. No carbs or sugars, lots of fresh greens from the market. I indulge in a small glass of alcohol in the evening (update: no alcohol). It used to be many glasses, it was like my tumor was directing my appetites, for cherry pie, wine, starch.. luckily my dormant self preservation instincts kicked in. and things have improved. The pastry store and the liquor store miss my business, but they'll survive. As will I, hopefully.

Treating symptoms rather than causes is not limited to medicine. In agriculture, particularly monoculture, pesticides and weedkillers are necessary because the commercial plants, the annual wheat and soybean crops, are not very healthy, and therefore prone to attack from insects and to being overwhelmed by invasive weeds. A healthy plant doesn't worry so much about these things, and thrives on biodiversity, living soil, and symbiosis. A healthy person is also less prone to disease, to symptoms that must be diagnosed and treated. Oxygen in the blood will keep cells metabolizing properly, warding off damage to the mitochondria that causes cancers. Nutrients will keep the liver healthy, able to process the toxins that are everywhere. Well-grown foods promote healthy condi-

tions, prescriptions not so much. All the medicine I take is OTC.

Agriculture and health are the same subject.

Jumping scales: building seawalls to keep outrising seas is treating the symptom, not the cause.



7. AGRICULTURE

I speak from an aching heart about agriculture, not from experience. Full disclosure: I'm very proud of the parsley plant in my window box (it's since died), but I've had some mixed success with mint. So I'm not speaking for farmers here. I'm not an agricultural expert. My involvement with agriculture consists of reading two fascinating books: 'Carbon Farming' by Eric Toensmeier and 'The

Third Plate' by Dan Barber. That's almost 800 pages, so let me summarize.

What's happened to wheat, a crop meant to feed the rapidly-reproducing masses, is an issue as likely to cause our demise as any other, probably more so, which is why I bring it up and why I read those books. Collapse of the soil means collapse of the civilization that thrived on it, and the soil of the midwest and billions of acres of monoculture has been destroyed by oil and gas. As an illustration of the destruction of the prairies, the tractor scene in the movie 'Grapes of Wrath' sticks with you. Here we are almost 100 years after the dust bowl, going down the same mechanized path. Monoculture saved billions around the world from starvation in the process, by growing more food, but the results down the line are what we're worried about here.

Fertilizers and pesticides and herbicides are oil and gas, and the varieties (actually, no variety) of wheat grown on what were the Great Plains cannot survive for a minute without these. Add Monsanto to the mix and we have heavy-breathing monoculture and monopoly power over yet another staple of life. And what a surprise, this monopoly shares the distinction with the other monopolies of coincidentally leading to our demise, in this case by feeding us empty calories and destroying the ecosystems downriver. Also wiping out centuries of best farming practices that preserve soil.

This is the theme, that the magical ways of nature that allowed long-lived civilizations, through biodynamic agriculture and keeping the soil healthy, that got us here, have been usurped whole hog by oil and gas, like everything else, and that's the end of us.

On the positive side, the world teems with people doing it right, trying to revitalize dead soil, bring back old seed stocks, growing crops together like the natives once did. Biodiversity is the key to Eden, the product of billions of trips around the sun, but monoculture is the enemy of that, a violent, unsustainable destruction of Eden.

In central Brazil the Cerrado, the highlands where all the rivers come from, is being plowed under to raise soy beans for cattle for China. All the fertilizer and pesticides and who knows what (after all cows don't read labels, what do they care?) all going into the rivers and out to the sea, upsetting all the ecological balance along the way. So this land is suffering the same fate as the Great Plains, it is dead and dying soil killing the rivers and the fisheries.

The real theme of this book is the changes we have to make, and a perfect example is the grains we consume, sometimes in the form of meat. The most vibrant and sustainable agriculture involves growing different crops together. These arrangements don't need fertilizers or pesticides, the world is saved! But what happens when there is no market for one of these crops, like barley or beans, and a large, bankable market for just the wheat? Down the slippery slope of monoculture goes the land. So who controls the market? The demand, which is us. When wheat is harvested, it is subject to dangers, mice, molds, and when it is milled, it has a shelf life of a day before the enzymes in the germ start to decay the flour. So the solution was to remove the germ and the bran, the nutritious part, and sell those separately. The white flour left has a terrific shelf life, and the bread from it will keep you alive, but it's a long sad way from fresh-milled organic flour baked into a perfect aromatic loaf. Such as they sell

at the farmer's market.

I saw fresh-milled organic flour at the farmers market today, but nobody was buying it. I would have but my assignment is to stay off carbs. Sad.

The food market has a profound ability to be manipulated, once monoculture is in place the product finds its way into every staple food, from pizza to pop tarts, washed down with carbonated corn syrup, and changing our diet much for the worse, cancelling out centuries of tradition that immigrants brought to this country, that the natives relied on for survival. Rates of obesity skyrocket, diabetes, cancers, the canaries in the cave are dying. Birds are dying out from loss of habitat. I'm sure the reader is aware of all this, I'm just trying to put it perspective so we can determine a course, to push the tiller where the boat has to go.

So we end up back in the health care system, treating ourselves for preventable diseases caused by our sub-par diet caused by monoculture, which in turn is caused by predatory, systemic capitalism that gobbles up small farms and plows them under. The medicines are petroleum based, of course, since oil and gas is everywhere, but a good argument can be made that by far the best medicine is a decent diet, which means living, breathing soil, which means a different kind of field-to-table economy, which means that there are clear choices we have to make in the supermarket aisles.

I have to start with my own habits, what I like to cook, where I buy my food and what I buy. Lately I've shunned the Whole Foods and Fairway, sorry, and head straight for the farmers market on my bike, with a bag of stinky kitchen waste for the compost bins. I can't have carbs, so I won't be supporting the demand for heritage barleys, but I am consciously trying to expand my range. It's a

great symbiosis, the farms trucking their produce into the market and selling it to people dissatisfied with standardized fare.

Out of season means it comes from far away on fossil-fuel burning transport, oil and gas again, so eating what's in season is an adjustment for people taught from early on that these things don't matter, the transport, the plastic packaging, the germless wheat with decadal shelf life, the cans, it all keeps us alive but it's missing the seasonal. If I go to the farmers market instead of the supermarket, everything is in season. It is fresh, more nutritious and tastes infinitely better. It's more expensive, but hey, health care is expensive. I'm investing in health instead of health care. And my expenditure supports the farms that support me. And it's cheaper than a restaurant, so that's a good habit.



8.

CLIMATE DENIAL

Blinding out Global Warming

Back when Yahoo had a comments section, every article that mentioned global warming brought out the trolls, and I would jump among them, my logical sword going snicker-snack. My troll-fighting name was Ekofreek, and I gave my best, but the oil and gas trolls were irredeemable. Who was paying them, Kochs or Putin, or the American Petroleum Institute, or the RNC, impossible to tell which, but the audience, the up down arrows, the arguments that go on for months in the comments threads, this is where the future of society was being decided. At least it felt that way.

To recap the lies being disseminated in this way, among many other ways: * The liberal scientists have an agenda and are milking the globalwarming lie for profit and grant money. * The little Ice Age and the naming of Greenland are proofs that global warming is a massive hoax. * CO2 is plant food and totally benign. These right-wing talking points brought to you by a Koch-funded think tank, or an ugly building in St. Petersburg or Houston, who knows.

How do they know a scientist is liberal with-

out looking at their voting record? Because only 6% of scientists are republican, though that number seems high.

These lies serve the overall strategy of demonizing liberals, classifying them as the problem (as opposed to Russian election interference, which shared the same strategy, being the problem). To those prone to unsupported generalizations (radicalized Republicans) the liberals, hoaxers, scientists, are all after public funds. The unsupported generalizations, that scientists are corrupt, that global warming is a hoax to get your money, were spread through social media propaganda and mainstream radio and tv, using mailing lists of the NRA, church groups, any social rabbit hole where moderate Republicans could be found. By 'moderate' I mean 'gullible'. This worked its magic, to counter the threat of regulation caused by public outcry about global warming. Distrust of science and the media is another troubling American value, and like all the other lies, it snuck its way onto the Republican platform.

When Biden won the 2020 election Rupert Murdoch had a problem.. just reporting the win would lose his media outlets viewers, they would switch to more radical on-line fare. To pick things up his talking heads started claiming the election

was stolen from Trump, there's investigations, fraud.. this is the yellow journalism that has always been a plague to democracies. His business plan was and is to divide the country as much as he can manage so that one side, the radicalized Republicans, depend on him for news and opinions. 'Climate change proven hoax' is an example of a Fox 'news' headline from last decade.

Each action has an equal and opposite reaction, and the sheer massiveness of climate change, which effects everything (except on-line poker) created an equally massive threat to oil and gas of federal regulations of their industry, and the possible disappearance of oil and gas subsidies. So the oil and gas response was equally massive, and continues unabated, bringing with it a radicalized Republican party that feeds on lies. The propaganda became the republican credo, because no one could admit it was bullshit. Repeating the lies remains proof of loyalty for any public figure. Not repeating the lies gets you on Trump's enemies list.

The agreement among these neo-liberals is that the country must be protected from restrictions on business at any cost (I call this State Capitalism, with capitalists in charge of the state). So behind the demonizing of Hillary Clinton in the previous election cycle that brought predatory capitalism to the White House, was oil and gas warring against regulation of oil and gas by turning quotidian emails into spawns of hell, Benghazi into a battle cry, by turning any discussion of global warming into an unwinnable screaming argument, to above all prevent any action on climate change that could adversely effect their revenue streams.

Al Gore was also mocked and ridiculed. Everybody leaves themselves open to ridicule but this was beyond. Hatred of Al Gore and climate de

nial became the same thing.

These many-tentacled revenue streams trickle up to Wall Street banks, so you know which side they are on. They are as addicted to oil and gas revenue as we are to oil and gas. Volumes could be written about these financial arrangements, but that's a project for someone else. I'm only interested in the big picture.

The party of gas addiction shares this with the other party: we are all gas addicts. We are all consumers of oil and gas, that's what a monopoly is. You can't get away from it. The grid is an energy monopoly, made possible by a general desire for comfort. That this comfort comes at the expense of ensuing generations, of the temperate climate, that's like being born with student debt that you can never pay off, or original sin. This terrible price has not hit home yet.

Now there are more and more ways to take houses off the grid and live comfortably, to drive an electric car that charges in the sun, to circulate nutrients and other resources, and to pass these life-skills on. Such life-styles could help us survive the troubles ahead, so it's a very good time to head in this direction. But who does that? I don't know anybody.

Probably some hippy communities, founded in the sixties, have evolved some utopian habits that nurture generations, without relying on oil and gas.. should look into that. That provides alternatives to the consumer culture, which is the whole point here.

Even with multiple threats to the grid, from ransomware hacks to extreme weather and wild-fires, we have not even slightly reduced our total reliance on it. I am guilty of doing nothing to get off the grid, but at least I'm making plans, bringing the subject up in conversation.

I drive an old Diesel to my mother's house.. aren't there electric cars now? Well, I can't afford a Tesla just to get to my mother's.. maybe burning biofuels, I'll look into that. Hempdiesel would solve my problem and absolve my guilt. Better still, a cheap PV Car. Update: I now drive an e-bike!

For oil and gas, it's not just regulations that must be prevented through relentless propaganda, monopolies must kill the competition, Rockefeller-style.

Exhibit A: the defunct hemp industry. Synthetic fibers, nylons, polyesters used for everything. Marijuana-sniffing dogs emerging from a police car on a dark rural highway.

Exhibit B; patients being put into the hands of medical technology, while things they can control, like their diet, is downplayed, rarely a treatment option.. because diet competes with medical technology. Natural remedies against inflammation compete with, threaten rather than complement their specialized treatment, which tends to address the symptoms rather than the causes of inflammation. Diet addresses the main causes of illness, what's in the blood, the input, the connection to the earth, or lack thereof. Like any other animal, seeking the best nourishment should be our top priority.

(I finally got a call from the dietitian at Bellevue Hospital, she said no alcohol, which I knew, but couldn't do, and no fats, no fried food. That means even sautéed mushrooms in olive oil were out. This information came to me three years after the onset of a rectal tumor. So sticking to the diet is my job, rather than sticking it to the dietitian.) (Now I hear that the Ketogenic diet is high in fats.) (I'm slipping into bad habits, sugars and carbs,

help!)

Exhibit C: Self-truckers: driving light trucks everywhere they go when they are the only cargo. All the old methods of getting around, walking, canoes, horses, hiking, sailing, are relegated to leisure activity, and even they are usurped by gas powered transports: motor boats, skimobiles, even helicopters and jets. Facebook may have birthdays but oil and gas has vacations and transportation.

Exhibit D: Fellow citizens preferring the artificial environment, the on-grid experience, avoiding being outdoors, self-propelled, subject to weather and various temperatures. So the monopolies are encroaching on nature and the act of walking and being outdoors. It becomes the job of government to create contentment, from the grids and highways and flyways and the house filling with media outlets, this is the point of social stability. From phonesto tvs to Tablets and laptops, you can be on your favorite app on three different devices, a beneficiary of being an all-powerful never-satisfied consumer, enjoying room temperatures year around. The nature of reality changes. Being on-line is really really indoors, indoors squared, the opposite of outdoors. Inside the great indoors is the internet. it's just wrong to be too cold or too hot, or to not have a beverage handy, or to take your eyes off the screen. Technology, like energy, creates dependency, which is what monopolies want..

*

Long ago in Olde England, people could claim very few rights, but one that was held sacred were roaming rights; like an animal, you can wander where you please. To this day barons and earls must provide paths through their estates in respect to this right. Enter the car, and with it the right to

drive anywhere, which gives us the roads we drive on. Roaming rights are not in the Constitution, but they are observed and woe betide any who tries to remove that right. The problem is that it morphed into the right to burn fossil fuels. If you look at the fate of the planet, no one has a right to burn fossil fuels, yet we all do, and that is based on roaming rights, going where we please. Oil and gas had no trouble bending this into one hundred years of brisk business through a hard-won energy monopoly. Everybody drives and flies everywhere, everybody's a customer. Even if you don't want to be.

I want a car with a photovoltaic skin, that sits in the sun all day storing electro-chemical energy, which I can use to get to my mother's house, that I can leave in a rail station parking lot, charging up. Sonos in Frankfurt makes such a car, perhaps in the US someone could build one or a million, like the VW Beetle of old.. a ubiquitous expression of roaming rights. A Tesla for the masses. A way to get around and bring down oil and gas!

How did oil and gas accomplish all this self-serving social manipulation? How did we buy into it, but can't buy our way out of it? I don't know of a single community not connected to the grid, yet the technology exists for a whole town to get off the grid. You need a wind turbine (no uglier than a water tower) a solar farm (renting local farmland, along highways, on roof of public buildings) and a storage system (water towers can store kinetic energy). And yet, where are the plans? Where is the alarm about a threat to the grid bringing down society? The transition is barely happening. As long as the grid is up and running, we'll be worried about other things like mask mandates and Critical Race Theory, whatever that is, (isn't it called

'history"?) and the stunning complexity of the consumer life, man-aging such an enormous cloud of choices on so many different screens while oil and gas keep their total control over your energy supply. Ethical out- rage is directed towards the political opposition, not one's own habits and delusions, not on the real present and future threats to society that can be traced to our day to day.. Immigration and abortion are not threats to society, but oil and gas has no trouble exploiting this situation, fanning the flames of discord, turning immigration and abortion into the problem, all to distract us.

People in Texas can now bounty-hunt their neighbors on the abortion issue. Texas is oil and gas and going down a dark path.

Federal judges have hired private law firms to prosecute human rights and environmental lawyers,as a strategy to avoid paying massive fines for pol- lution. What could be more evil, ruining biomes,killing populations with zero responsibility.

Sen. Joe Manchin, WV, is oil and gas, tryingto halt action on reducing greenhouse gasses, rep- resenting the industry that has enriched him. If he votes for infrastructure bill, his revenue streams will stop. He already has the yacht, looking, as always, to politics to provide on-going revenue.



9. THE GRID

Basically invented by Nicola Tesla, who immediately saw the problem: the demand for electric power made available by alternate current has no finite limit, but the electricity supply relies on combustion and particulate / CO₂ emissions. Energy has to be created and converted to AC power however it can to feed the growing demand, and since that demand is money in the bank, the banks see that the demand is encouraged to grow. The grid spreads, feeding its tentacles into our lives, from the cities to the plains to the mountains. The default energy source is coal, which turns terrestrial carbon into atmospheric carbon, exactly the formula for destruction of our habitat. Carbon fills the sky and leaky toxic holes destroy biomes, but I get to run a refrigerator running on 120V AC.

Tesla designed and built turbines at Niagara Falls to remedy this problem with hydro-electric power, only to have the grid quickly spread all over the world, mostly getting energy from fossil fuel combustion in coal-fired steam-powered dynamos. This problem continues, with coal-fired plants being built all over Africa, part of China's outreach, powered by Australian coal. And CO2 levels continue to rise ominously.

Tesla built Wardenclyffe on Long Island to provide power to the grid through capture of Hydrogen ions and standing electromagnetic waves in the earth, but there is no proof to date that his tower would have worked. The state of emergency remains; CO2 emissions fucking up the climate permanently. It is much more dangerous now than it was then. The solution isn't finding vast sources of energy for the grid, like huge fusion reactors, hydroelectric dams, the solution is to get our own energy, including from our bodies.

The lifestyle of the average American is totally reliant on the grid, which meanwhile is getting more and more vulnerable. If I were an enemy of the State, I would look to hacking the grid as my best option for bringing down America. Disabling our infrastructure would be more destructive to our economy than even getting drawn into Afghanistan (Osama BinLaden's evil plan). What would people do without juice? They would scream at each other in candle-lit town halls.

And they would immediately order off-grid systems from Amazon. Too bad the fuel pumps don't work, so no delivery trucks. And now my phones dead.

Our dependance on the grid is a major national security threat. If I was in charge, I would immediately implement ways for houses to heat and cool themselves and provide their own electricity. Which is possible and desirable. The next step would be de-centralized food security, in case the fuel pumps can't pump and produce can't be distributed.

Much of the grid in California has had to be shut down for fear of setting off wildfires. Cause and effect on many scales.

Puerto Rico should not have to rebuild the grid after a hurricane, they could use micro-grids, give people solar panels and car batteries and inverters, dig holes for the geo-thermal a/c. Then after the next hurricane things are up and running.

Everything we do, from making concrete to growing crops to providing power, we've figured out a way to do it that puts Carbon in the sky and erodes the top-soil, kills the forests and oceans and generally sucks. For the biome, it's like cigarettes and bad whiskey for breakfast, it's not healthy. Our survival depends on the health of the biome. Alternative economies are available to experiment with if anybody's interested..some available options have been in use for millennia. How do we go from here to there? Seems to involve hemp, solar, electrical knowhow, public will and lots of unknowns. Replace 'unknowns' with 'plants'. Replace 'plants' with 'integrated biomes', the kind that existed on the Great Plains, in the rainforests and marshland before we killed them with monoculture.

Central Brazil is being killed with mono culture, soybeans to feed the cattle to feed America and China meat for breakfast lunch and dinner. Mechanization of agriculture and fishing kills the planet, destroys the complexity that is synonymous with health. China must adopt a plant-based diet or we all die.

Pulling investments out of oil and gas and into renewables would be a solid step forward for any financial institution, and there are so many new options for small investors, so many new products out there, a vibrant economy of innovation. We can't get out of this grid-dependency without the market system cooperating with innovators.

When the gas furnace turns on, warming the house with that reassuring roar, who thinks of fracking wells and forever chemicals in rural Pennsylvania? I do. So one way or another I'm going geo-thermal. I'll dig the hole myself, fill it with pipes and pump air through it and into the house. How hard can that be?

Any new house should be fire-proof (hempcrete) and tied to the earth through ground-source geothermal. There you go with your liberal regulations of the construction business.

Imagine all the grids and distribution systems trying to reach out to us as consumers, some under enormous pressure to provide what we need, like fracked gas and endless miniseries. 'More pipelines' is the motto of oil and gas, not 'burn less'. And more pipelines are built. Who is telling people to tie the temperature of their houses to the ground temperature below the frost line, thereby reducing the need for fossil fuel heating solutions, less strain on the grids? Hello. Who besides me? I guess NY-SERDA is trying, but I don't know who or how this would expand into a thing.

In its basic form, geothermal would involve digging a hole 10 ft deep, placing a pipe system inside, and filling it in again, with the ends of the pipe system sticking out the top. Hooking up a fan to this would regulate house temp to some degree, even if just the basement was regulated this way. The steps up from this include venting throughout the house and a fancy fan system and heat pump, and stepping up from that a solar array, wall battery, inverters charge controllers.. now off-grid is beginning to happen, and it doesn't have to be out in the sticks, could all be done on any one of Long Island's millions of residential lanes.

Economies rely not only on growth, but also on the distribution of energy, the grid, the infrastructure, and everything else that makes modern life possible. The material for this is taken from the ground in a steadfast, uncritical extraction of value, degrading the value of the Earth, moving that value to the surface, into the economy. Unfortunately this economy values a tree more when it's felled than when it stands, in spite of the web of life that teems around a living tree. The tree stands as an impediment to capitalists who need the land for monoculture or another mall that will sit empty in a matter of years. That amounts to a lot of degradation. The planet has been badly used.

Capitalism is competitive. Nature is cooperative, infinitely interwoven, the warp and woof of selection and symbiosis. Different systems lead to different outcomes. The poor generations coming after us will have a miserable time staying alive in climate and political chaos when the weave of life is torn. These support systems will collapse. They could collapse tomorrow, from weather events or ransomware hacks, and our dependence on them will be our undoing.

For this reason alone, and there are many other reasons, houses should be taken off the grid, should supply and store their own energy, including for the car, and that is entirely possible. Solar panels and wind turbines and simple geothermal systems can eliminate the monthly bills and the threat of helplessness. Houses could even grow their own food and supply clean oxygen and water, ensuring survival for a family when faced with hell and high tides. Ideally the house would also function as a barge for flooding events.

To someone renting a small apartment, living month to month, these recommendations may not register as feasible. Still, the innovations and resourcefulness of people with little or no wealth is always surprising.. setting up solar systems is something anybody can learn to do. Even different ways to store energy would emerge simultaneously from different part of the world.

Before the grid, all houses were off-grid. With our over-powered life styles threatened by modern dangers, we probably could trend to more self-sufficiency, to change our needs, to listen to the planet, to observe and enjoy.

Me, I'll be worrying.

Amish Farmers Are Leaving Tobacco For Hemp

75% of the Young People Around the World are Frightened of the Future Because of Climate Change

39% of respondents saying they are hesitant to have their own children.

Hemp Ethanol Could Replace Gas And Cost 4 Times Less at The Pump, Biofuel Expert Claims

The Nation's Corn Belt Has Lost a Third of Its Topsoil

Texas Oil Regulators Profit from the companies They Oversee.

Hemp Plants Pull Toxic 'Forever' Chemicals from the Soil

6-Month Sentence for Lawyer Who Took on

Chevron Denounced as 'International Outrage'

Africa's cannabis industry could potentially grow

beyond \$7 billion valuation by 2023 as opportunities

abound

11. BUSINESS IDEAS

-So. Hempton. Chain stores selling hemp products. (NYHEMPORIUM)

-Electric boats, cars charge in the sun all day. (China and Germany have beat us to it)

-Off-grid prototype housing you can order through contractors.

First step, dig a hole, fill it with pipes that come up through the floor of the basement. Then build the house.

-Compostable hemp diapers, med supplies.

-Hemp Exchange. A telephone book for hemp and bamboo products, with links to the sites. Toilet paper, towels, Diesel fuel, medicines, bird food.

-Hemp-fed milk and meat. Hemp breakfast cereal.

-Spreading hemp in wild lands and dead fields.

12. STATE OF THE ART

Reductioni.

S2A Modular

Sono Motors solar.-charging cars Frankfurt Germany the Sion

Brilliant Light Power is getting set to change the energy economy. Dr. Randall Mills posited that darkmatter was a more stable state of Hydrogen, with a lower electron orbit. His subsequent experiments proved this, and he figured out how to burn regular H₂ into Hydrinos, releasing brilliant light. He then built a machine to capture that light with high-end PV cells, creating electricity from water. Very hard to believe Mills, though he is eloquent.

I tried alerting physicists of my acquaintance about this amazing development, to a one they called him a fraud. And yet I look at Mill's company's board of advisors and I see people with credentials far exceeding the physicists of my acquaintance, so I have to wonder.

He makes a steam generator that would be perfect to run the branch lines of the Long Island Rail Road. I hate these huge loud filthy Diesels, running

constantly. If Mills' invention can power a locomotive, all one would have to do is convince the MTA to switch, to dump their major fuel supplier in favor of steam locomotives that don't pollute or cost anything to run.

However no one in physics thinks there's a lower than ground state for Hydrogen's electron.

Blade wind turbines provide power by just shaking in the wind. They would not look out of place on somebody's lawn or roof. Probably they don't generate enough amperage, but the night is young.

There are kinetic energy storage systems that employ simple methods, like a lifting and lowering a boulder, or pumping and releasing water depending on whether the energy is being stored or consumed. Electric dynamos are very adaptable to these kinds of solutions.

13. FINANCIALS

These industries have evolved to maximize short-term profit, keeping share valuations high and the hedge funds happy and the campaign coffers filled.. However, many banks and universities and public funds are dumping their FF stocks (divestiture), and what's wrong with that? Suddenly the real problem emerges: predatory private capital buying up devalued assets, old

fields and platforms, even tankers, and squeezing them for profit before abandoning the enterprise and leaving the cleanup to super-funds. The money is addicted to oil and gas, doesn't care about the damage. This private capital investment has been over 1.1 Trillion dollars in the last decade, at least that's what has been reported on, and none of that is for clean-up.

This doesn't take blame away from oil and gas, but private capital is like a cancer, growing, taking things over and leaving them dead and toxic. Ecology is not a big concern because there are no penalties or responsibilities, which reminds me of the sub-prime mortgage crisis that nearly brought down our economy. This crisis will bring down the planet.

What to do? The big money has taken over the extreme wing of the republican party in order to prevent regulation of this lucrative shadowy business, so oversight is not likely.

The state players, like OPEC, also fill the vacuum, stepping up production to meet growing demand for oil and gas. No one is looking to reduce the demand, no ads tell you to burn less gas.

The only alternative is to provide an alternative, to base sections of the economy on hemp and bamboo, to have that fork in the road available to new generations. This can only happen slowly, but it should be sped up. The goal would be to attract private capital away from oil and gas, so financial instruments have to be created and promoted, messaging has to flutter across the landscape, climate concerns have to alarm people, and the alternative, hemp, has to knock on their door and demonstrate reliable products. Geothermal is like that, solar cars, hemp jeans, the combustion-free life should attract people, bring a positive spin to all the bad news. It also would form a base of common knowledge, which doesn't exist

now.

Private capital must be converted to hemp industrials where it can't do so much damage.

By containing the options available to consumers, oil and gas monopolized as many human needs as were available. This is exactly what hemp has to do, separate from oil and gas, but not through monopoly capitalism. Nothing happens without market cooperation, but a new economy provides enormous investment opportunities. Fortunes have traditionally been made in this kind of transition.. The securities markets finance our needs, which then determine our fate, but our buying habits are at the root of all valuations.

Really it's the fate of the future people that is being determined as the present populations plunder and monetize the resources future people can no longer rely on. The markets regulate this plundering, so we must determine if this power can be used for good.

Of course it can, but only if a vision of the future is clear enough to build investor confidence. Investors care about returns, not saving the planet, they are not moved by doggie eyes.. The vision of the future has to include retail trends and must emerge from incremental adjustments in our buying habits, which only happens if products are available that compete for customers with oil and gas. What can transpire is a world without oil and gas, without monoculture and monopolies, a society that welcomes best practices and shuns the old ways of poisoning the planet. This is happening all over the place, but the challenge is to defund the oil and gas projects and change the system.

Financial analysis is not my field, but I've kept a very long list of sustainable technologies called (ostentatiously, I admit) the INDEX. Turning

the innovations into investment opportunities is something I've always wished to do, wished the world would do, using the INDEX, but it's happening. Now it's very easy to invest in the future. Putting money into oil and gas, which has been half the money in the world for a long time, is getting riskier, and that is the glimmer of hope we need. That wealth must migrate to sustainable businesses, out of the corrosive influence of oil and gas. It starts with a drip and turns into a river.

Near where I grew up was a little cove where boats were anchored. Periodically, after a rough winter or a hurricane, the entrance to the cove would be blocked by a wide, immovable sand bar. One day my father, who loved his boats, took a shovel at low tide and dug a shallow trench a few inches deep across the sand bar, while I watched. Within a week a channel had dug itself out of the trench, and to this day the cove has a wide and deep entrance. This is what I imagine could happen to the ocean of wealth held by oil and gas, that it starts with a drip and turns into a wide channel that floods a different way of doing things with private investments and public acknowledgement.

From a business point of view, the markets for oil and gas products are 'accounts', profitable business relationships, which are hard to come by and firmly held.. so our hemp transition requires a wresting of these accounts from oil and gas. That won't be the easiest thing to do, and the battle will probably get dirty and ugly, but with the strategy I outline at the end of this book, we can get started.

Once the money smells the future it will come to buy it up and control it. Hemp businesses will have that problem but because hemp is so under the radar the businesses can flourish for now

without the carpetbaggers (LIKE ME!).

14. REMOVAL

Whether we do or do not get off oil and gas, there will be some cleaning up to do. Stopping the pollution has been the focus, but removing what's already in the air and oceans is the other half of the battle in this war against the future.

— Carbon from the Sky

Carbon capture and storage

Heirs of oil and gas should donate all the oil money to carbon capture projects.

— Plastic from the Ocean — Chemicals from the Soil growing hemp

REBUILD

Solar farming on highway land. This is being done in Georgia. Red State Solar.

Seaweed farms to feed cows, rebuild oceans.

Off-grid homes and apartment buildings for the burbs, as opposed to the back-woods.

Solar powered cars.

Hemp bioDiesel for trucks.

Geothermal systems for all kinds of houses.

Victory gardens, to help win the war against oil and gas.

15. THE CIRCULAR LIFE

If we all support the hemp industry, it can beat back oil and gas. One fights this war with consumer choices, where you spend, so it's not that big a sacrifice. Replace your gas appliances with electric, geothermal systems, then replace the grid with a solar array on the roof, while wearing stylish hemp clothes.. hit the farmers market for your staples, supporting regional agriculture rather than the super market, which is a huge distribution system run on fossil fuels.

The farmers market is an easy way to reduce plastic waste, you can throw everything into a shopping bag, as people used to do before oil and gas took over. Is there a basket on your bicycle? What? Can you bike to local stores? Many habits, like driving everywhere, are hard to break. Carbs, sugars, alcohol, all have to be reassessed. Reducing dependency is good, and we are highly dependent on a complex, multitiered infrastructure that provides our needs and soothes our cravings. Take back control of this, bypass the monopolies, like the puritans bypassed the king of ENGLAND. Let's fight for independence from the oil and gas EMPIRE.

Our on-line clicking habits may not be enough to save the planet, but bringing down oil and gas is necessary to save democracy, the country, the planet and everybody on it. Circular consumables! That's the echoing cry of the eco warrior!

PART 3

AFTER OIL AND GAS

1. Hemp
2. Off Grid

NYH

hemp/bamboo product index

NEW YORK

ORK

EMPORIUM

0



SUSTAIN!

MAINTAIN!

[Where I Do My Shopping!](#)

1.

H!

PRODUCT CATEGORY:

CLOTHING

MEDICINALS/

BOTANICALSPAPER

FUEL

BUILDING

MATERIALSFURNITURE

HOUSEHOLD

COMBUSTIBLES/ CONSUMABLES

The **H**emp space is a great space to be in because new products are coming out all the time and the market will open wide with legalization, as a crop and as a recreational stimulant and thousands of other uses. These developments are consistent with our determined purpose here, to promote hemp as a weapon against oil and gas and to save the birds and the bees. We want to trend hemp, to create a robust market, causing more hemp to be grown and simultaneously replacing oil and gas products and spreading hemp to the wild where it used to be. All before breakfast.

To benefit from this and to help it along, a business plan would make great things possible. Let's call this business plan

'NEW YORK HEMPORIUM'. Or **H!** Let's imagine a fun space, with great variety of hemp products, including pot and THC products, to be felt, seen, priced out, is the retail part of all this competes witheverything else. I'm not in retail, but all things interest me, and I'm between jobs.

This concept is Etail and Retail and could include entertainment.

To create the N.Y. HEMPORIUM could be simple: find someone with a hemp store, who is in the hemp space. It could be someone in NYC, or anywhere who sells hemp products. The hemp space is currently limited to expensive bottles of CBD and, more and more, actual pot, sold in more and more stores across the city and in every city.

So the product line must expand, hemp must show its versatility for this to work, bringing products to the people, including smoke, TP, CBD, THC whatever we need. Starting a store in NY is not something I'd be good at, but I could talk to a retail guy, a store owner, and make a case for switching to hemp. Creating a partnership between hemp product manufacturers and the store owners would create the New York Hemporium, which might be very popular.

The margins are slim, what I found on line are exotically priced (Hemp Tee 1 for \$88., Calvin Klein Tee 5 for \$44., Junya Wantabe Tee 1 for \$126.), though I don't know what the manufacturing/ raw materials costs are how can they not compete in the end with industrial cotton? However, the longevity of the products adds to their value. The longevity of toilet paper is not an issue, but price is, and local availability is, and margins are of concern for this business plan to work. Many businesses have started with negative margins, hemp products compete for price against designer products like Calvin Klein, and living guilt-free has value.

How can growing hemp, fed by rain and sun, not cost less per unit of energy than drilling oil wells miles under the sea? Costs add up when rigs explode and leaks get public attention. Farmers have to buy seeds and fertilizers and pesticides from Monsanto and Dow Chemical.. hemp doesn't need that stuff. To process it just needs mashing like wheat. Hemp fuel should be much cheaper than gasoline or Diesel, and would be an easy choice to make if hemp bioDiesel was available, why couldn't the MTA run the branch lines of the Long Island Railroad on hemp bioDiesel?

It's easy to see how markets and consump-

tion could adjust to hemp, but a big government contract to power those Diesel locomotives 24/7 would make growing hemp worthwhile. It would raise the economy, and state governments are interested in that.

None of this works unless this desire to switch out of oil and gas appeals to lots of people, not just me. It is possible that hemp straddles today's political divisions, that loyalty to oil and gas fades as alternatives emerge, that hemp will be publicly accepted by finicky human mammals of all persuasions.

PROBLEM: I'm looking for hemp pants, google 'hemp pants', and get flooded with ads for pants made of a variety of materials. My purchase criteria is 'made from hemp', they think it's 'super-soft and stylish'. Same with toilet paper, towels, sheets.. what would improve things is a web-site/index of hemp products. No ads, no hype, just like a hardware store except that everything is made from hemp.

At N. Y. HEMPORIUM.COM you search for normal purchase items, household consumables, clothes, shoes, fuel, diapers, bricks, whatever you want, to see if somebody makes it from hemp or bamboo, rather than non-sustainable materials from the oil and gas world. A simple search brings

up the sources for the products, all of which have their own web sites and can make the sale. One normally shops for the non-hemp varieties in the local supermarket, lumber yard, pharmacy, clothing store, but the messaging has been strong on Face- book, hemp is better.

The customer account on the site remembers your purchases. If you like the hemp shoes, this is where you got them, and you can examine all the hemp shoe makers competing for your business. Same with toilet paper and sponges and mops and well it goes on forever. Every manufacturer lists their product on the site, and the site gets a small percent of the business, like paypal.

An alternative to the fee model is a simple sale of advertising space on the site, a phone book model. Advertising would generate revenue, but hemp based manufacturers would all be listed by retail category.

A team of sales reps would find hemp product manufacturers and sign them on. They are on an exchange and get exposure and business.

Customer is thinking of a wall battery, goes to the exchange and sees some interesting hemp capacitors being developed for the basement wall to store electricity.

Customer is building an apartment building, needs bricks, checked the exchange, decides to go with hempcrete bricks from the nearest depot. Fireproof and mold resistant.

Customer wants a monthly subscription for toilet paper, it's easy to compare. All you have to do is wipe.

This is the same as Amazon, could reach the same scale, and has the same problem: everything is ordered and shipped. However it should lead to a franchise retailer that carries the common products, a hemp depot/ boutique to widespread localities.

Sketchpad

~~NY HEMP STORE~~

NYHEMPORIUM

HEMP AND BAMBOO EXCHANGE

HEMPTOWN

THEHEMPEXCHANGE.ORG

ALLTHINGSHEMPANDBSAMBOO.OR

GBACKTOHEMP.COM

SO. HEMPTON

EAST HEMPTON

HEMPXXANGE

HEMPIRE STATE

ALLHEMPBAMBO

OHEMPTATIONS

EVERYTHING HEMP/BAMBOO

ALL THINGS HEMP AND
BAMBOO HEMPSPACE

GROW HEMP GROW HEMP

THE CASE FOR HEMP

Planetary health has been severely jeopardized by reckless behavior from the extraction industries, which are basically eating our poor world alive. We have discussed how oil and gas removed hemp as competition for their products; the industry, which became a basis for Wall Street valuations, engaged in considerable social engineering over its 100+ year history. It managed to dominate every aspect of our consumer lives and business activities that could be monopolized, instigating the War on Drugs to destroy the competition (hemp) and the terrible result is shocking to contemplate: the most miraculous plant, food for birds and bees and fauna, replenisher of the soil, was wiped out, ripped out, in the war on drugs as waged by oil and gas interests, which tend use the government as a weapon to control our gassed-up society.

Since there is no substitute for hemp, it has to be brought back quickly, to by-pass the monopolies, to change consumer habits, to stop plastic pollution, to create circular economies however possible. This web site/ retail proposal would make it easier to be a hemp consumer, to live sustainably and guilt-free, but more importantly it would support the vendors, growing the market, expanding while oil and gas retracts and retreats.

In this POSSIBLE world, a CONCEIVABLE world, the hemp markets would gradually replace the non-hemp markets, which is everything else, the entire retail world. Then hemp would replace oil and gas in every aspect of our lives, reversing a great crime that's brought us to the brink of extinction.

When hemp returns to forests and roadsides, bees will flourish, birds will be fed, cows will munch, cloth will last, all medicines will be OTC supplements, by-passing the big pharma monopoly and every other monopoly. HEMP IS THE ANTI-MONOPOLY.

To keep it an anti-monopoly, other plant products must get into the same market place, so bamboo and mushroom and flax consumables should be welcomed into this space. However, the point is to bring back a **staple of sustainable living** and replace the monopolies, so the focus is on hemp.

In my on-line search for hemp pants, I sustained an attack of pantvertising, all claiming to be the softest, nicest, pants and they looked good, but all made from cashmere wool or organic cotton. My criteria was not soft and comfortable, because that's just me, and this is more general than that; my criteria is hemp. The message from the media is that my personal comfort is the only

consideration I would possibly apply to my consumer choices, which reminds me of finance people who consider ROI's the only criteria for investing they could possibly care about, which is how we get predatory capitalism. I want **hemp** pants. At a competitive price to cotton pants. Hemp is filter for an on-line search, but this filter doesn't exist at the moment so it's hard to apply it. It should be a universal application, the go-to that oil and gas has been for over 100 years.

HEMP

FILTERHEMP

STORE

CONVERSION TO HEMP (DAVE'S ON 6TH AVE.)HEMP IDENTIFICATION:

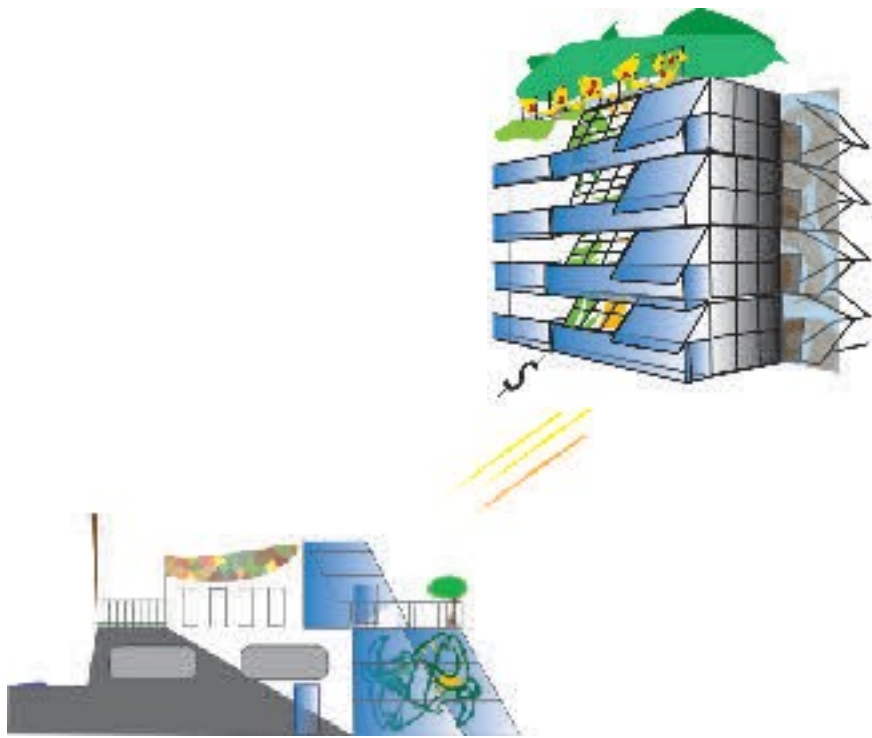
H!

2. Off Grid

THE CASE FOR OFF GRID

Homes were more capable of sustaining life before the grid, before garbage collection and plastic everywhere and people never leaving the house except by car. The vulgar quantities of waste wasn't until recently socially acceptable, now it's integral to the consumer life style that puts individual and family comfort as the priority and social/ environmental concerns last.

Almost all houses are dependent on gas pipe-lines, high-tension wires, distribution streams, county and city services, waste removal, and if these lifelines were cut off, privation would make previous habits and skills moot. A neat lawn would not be an asset under these conditions, but a wild-growing, horticulture garden might be. A gas powered car would be useless but a bicycle, even an ebike, could help ensure survival.



OFF GRID DESIGNS

GEO THERMAL

MICROFARMING

WATER MANAGEMENT

SOLAR

ENERGY STORAGE

ELECTRIC TRANSPORTATION

GRIDS AND MONOPOLIES

THREATS TO THE GRID

EDUCATION for the FUTURE

We got here by passing skills along, so the kids know how to hunt and plant into the future.

Schools must prepare kids for the future, therefore they should have a concept of the future. Preparing for the past is short sighted, though hunting and planting skills will likely be helpful. The future, if there is one, will probably have the sort of things we're discussing here. hemp, electricals rather than combustion, solar and wind, micro-farms, non-prescription medication, and early exposure to these things would give the students a fighting chance to survive the chaos.

Knowing the bast from the hurd, the anode from the inverter, will be as important as basic grammar. If I had a class I would have them build an off-grid hut with plants and solar and batteries and a geothermal system under it.

