

“It’s Only Natural”

Alex Slocum

7 October, 2019

The term “free will” seems to originate from the story of Adam and Eve: If God could predict everything in advance, why was the snake allowed in the tree? Judging by history, humans indeed have free will, and it is by this that they will be judged, as witnessed by laws and their enforcement. Humans were given complete dominion over the earth to civilize it by means of their brains and opposable thumbs and they have flourished at the expense of the wild.

We came from Nature and we are thus part of it and just as if we do not take of ourselves in the short term we will wither, so too if we do not take care of nature in the long term we will wither. Balance is needed. Many people believe in “God”, and are content to learn about God by reading verse written long ago and listening to the exhortations of people trained to teach them about God and the meanings of religious writings. While some claim to hear the voice of God, few claim to actually see and talk to God conversationally.

God having created everything is all knowing, which means God also knows all about science and engineering which come from the Natural Laws that God also created. Laws such as discovered by Einstein and a host of other brilliant people that have given us the miraculous civilization in which we live. Chief among these laws is the 2nd law of thermodynamics which states entropy always increases, and thus perpetual motion is impossible. This law thus means in order for something to happen, energy must be supplied; in the great universe there is one fundamental source of energy from which all others evolve. That source is when two atoms of the simplest element, hydrogen, fuse to form a new atom, helium, that has a slightly lower mass than that of the two hydrogen atoms individually. What happened to the little bit of mass lost? It was turned into pure energy: “light” with all its brightness, warmth, and glory to spread out in all directions. This is $E=mc^2$: energy equals mass times speed of light squared.

One day the universe as we know it will ultimately come to something that will lead to a big pause and then perhaps another “AHA!” moment and then there will be a new light and perhaps new laws to see how things play out. But for now, we have a set of natural laws that we have discovered and learned how to use that have given us a life full of air travel, cell phones, the internet, and many diverse sources of energy. So, it stands to reason that God gave us life and these natural laws and free will and rather than micromanage us on a daily basis, is happy to observe and according to some people there will be a final judgment.

Some believe we were pure and beautiful and then were tempted and took a bite from the apple and attained knowledge which made God mad and drove us from the Garden of Eden. By discovering natural laws and using them to our advantage to harness many forms of energy, such as hydrocarbons from long dead plants that originally grew because of light from the sun, we have taken the fateful bite of the apple of science. To make matters more interesting, we have also decoded the recipe for life, and have vanquished many of the afflictions that for eons kept us in balance with Nature. Our free will has led us to freely expand to the point where many believe we can expand no more and, indeed, might have to contract to survive.

How can we know? Many believe in the words of long dead scribes who wrote verse about God's laws, and the exhortations of those who portend to understand God's laws so well that they feel obliged to teach others about what was written. There is some debate as to who is correct in their interpretations as evidenced by many different religions in the world; however, people from every religion read by light, talk on a cell phone, watch broadcasts; and many travel weekly by car to visit places of worship to learn more about God's words and some travel by air now and then to visit Holy places. And all of these modern marvels that make possible the spreading of God's words and laws are made possible by the discovery and understanding of God's Natural Laws.

Unlike those who preach about what God meant by words in verse written long ago, despite never apparently having been able to say they actually themselves talked to God for explicit clarification, scientists have not only observed every single one of God's Natural Laws, they have learned that they can put them in a form that needs no discussion with God directly for clarification as they have come to understand that "mathematics is the language with which God has written the universe" (Galileo Galilei). So, what is "science?" Science is the process of observing things to form an understanding of why things are happening and to, ultimately, encode that understanding with a mathematical formula. What then is "engineering?" Engineering is the process of observing things to form an understanding of what needs to be done and, ultimately, to create something to do it.

These same scientists have been saying louder and louder, and many are now shouting, that the same Natural Laws that have enabled engineers to create things to make our lives much more pleasant and longer lasting than ever before in history, these same Natural Laws tell us we are about to engineer ourselves back to the stone age. Climate change is real, the ice is melting and the waters are rising and the weather is ever fiercer. Some may think they can choose not to believe, that God will never let this happen, that in Genesis 8:1–22, God promised never to cause a flood, but God never promised to prevent humans from themselves causing their own flood! Indeed, free will means the Earth is ours to do with what we please.

So, what to do? Perhaps we should listen to the prophetic words of Greta Thunberg to the UN "We are in the beginning of a mass extinction and all you can talk about is money and fairy tales of eternal economic growth - how dare you!" And then to the US Congress "unite behind science, and then I want you to take real action".

Each person has free will and thus can do what they wish. But if a person does not believe in climate change and does not believe we must all work hard together to reverse it from consuming every bit of energy we can, consuming less, recycling carefully more, and putting our production capabilities towards creating renewable energy machines to drive our carbon emissions to zero and, indeed, negative, then that person must also turn off their cell phone, lights, car, heat and go back to living a natural life just as God gave them in the time just after that fateful bite of the apple. And for those holier than thou folks who look forward to the waters rising and the fearsome heat as fires rain down upon us, they must remember Matthew 21:12, remember all the innocent children who never had a chance to make a choice who will suffer and die because of your inaction. Your greed takes you to a big bang toga party to celebrate the end when you will get to stand before God with your holy book in hand and wait for God to find your name in the book of life. Imagine your thoughts when God cannot find your name because your greed and

lack of action in life led to life being erased on earth and has caused your name to be erased from the book of life. Revelation 20:11-15. Perhaps one day from the lake of fire you created to which you return, one day a new light will begin again? Genesis 3:19.

We are close to the point of no return, in just a few decades scientists using the same Natural Laws that give us all our goodness say that at the current rate the temperature will rise to the point where even if we were to suddenly go carbon negative, we will not be able to stop the melting and the waters rising. Greta's message is most prophetic: No longer can we say "renewable energy is more costly than hydrocarbons, so let's keep burning until we get a better deal". Indeed, modern history tells us that when science leads to a new idea and a new product, be it air travel, space flight, cell phones, the internet it takes one to two decades for the idea to reach the masses. We do not have the time to bet on hope for a new magic energy source nor do we have the time to then build it out. We DO have "good enough" renewable energy sources to save our climate and ourselves and we DO have the economic ability to deploy them, and create great jobs and business opportunities for ALL. God has a plan for that too, and Isaiah 2:4 offers guidance:

An Almighty vision

Unless energy from sun and wind we do fully capture
We burn ourselves in our own sordid Rapture

It will be our collective ignorance and vanity
that leads to the end of civilization and humanity

Religion or perceived rights are no excuse
to pollute and burn carbon footloose

A wrecked environment, history will tell,
led to humanity's Almighty hell

After 2020 the time will be too late
It is NOW that we must choose our fate

Banish narcissists, liars, and cheats to prison
Elect smart leaders with compassion and vision

Peace and prosperity to all,



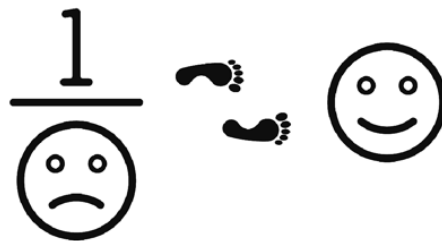
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Its Only Natural:
A Sustainable Revolution
A Bright Future for Energy & the World
YES We Can Do It!

Herein are many different puzzles to solve
Including many thoughts to evolve
Some lots more than others >
Some less than druthers <

Many different peoples
Gathered under varied steeples
Each will see things in different ways
And that's the real key to happy new days



To mask or not to mask?
That's not the question to ask
We all must no longer dwaddle
We need a new economic model

From COVID-9 economic ashes we can rapidly rise
Powered by focus on harvesting energy from the skies
Rapid testing isolation and treatment can open up the store
Harmony and balance with nature we can economically restore

**Due to our CO2 gassing
Heat records keep amassing
We grow yet wallow in pollution
We ignore that there is a simple solution**

**As corals & salmon die of heat before they can spawn
Carbon emitters must no longer turn their heads and yawn
On renewables we must ALL spend a reasonable part of what we earn
Or soon our atmosphere will be like that of Venus and it will be humanity's turn**

$\frac{1}{2}$ ☹️ ~ ☺️



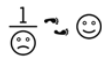
<https://www.kyuk.org/post/summer-chum-salmon-die-likely-caused-heat-stress-say-scientists>



(Photo: NASA)

**Our dependence on carbon fuels is causing global strife
The amazon burning should be a signal for all life
Nature and Physics simply do not care
We humans have no time to spare**

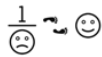
**Forget fake news
We have too much to lose
Money will not buy a place to hide
We must work together to stem the warming tide**



<https://www.theceomagazine.com/business/management-leadership/bostrich-strategy-ignorance-no-excuse/>

**“Mathematics is the language with which God wrote the universe”
To ignore THIS great gift is myopic, silly, SAD and perverse
And the math for phones to ring & planes to fly
predicts planet warming from CO2 in the sky**

**Energy themes must be the focus in schools
While industry is supported and retools
Lest we all pay the ultimate price
Together walk from sad to nice**



**For all the brave soldiers who died for our way of life
it will have been in vain if all ends in climate strife
A slowly increasing carbon tax is the way to start
to fund actions to keep us from falling apart**

**Because even with all our military might
soon there will be nothing left for which to fight
Let's quickly pivot to form the Climate Defense Forces
to develop and protect all Earth's precious renewable sources**

$\frac{1}{2}$ ☹️ 🤝 😊



<https://www.washingtonexaminer.com/trumps-july-4th-military-parade-is-a-good-idea>



<https://devotionsbychris.com/tag/ardlington-national-cemetery/>



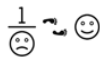
<https://www.solarcostguide.com/guides/benefit-from-solar-energy/>



https://www.al.com/living/index.ssf/2015/01/a_time_to_plant_trees_and_shrub.html

**Military spending* is 2.2% of GWP
 But to actually protect and keep us free
 Arms makers and dealers can quickly evolve
 and profit from environmental problems they solve**

**To transition rapidly to renewables we already have the means
 We know how to design, make, and deploy the machines
 Companies of all stripes promise negative emissions
 Consumers demand negative carbon conditions**



Population	7,000,000,000
Average 24/7 power per person (W)	2,000
Capital investment cost (including storage) per renewable Watt	\$ 5.00
Investment per person required	\$ 10,000
Total investment cost	\$ 70,000,000,000,000
World Annual Economic Output	\$ 75,000,000,000,000
% per year to be refocused on renewable energy	2%
Amount per year	\$ 1,500,000,000,000
Years to total renewables	46.7

* <https://www.cnbc.com/2018/05/02/global-military-spend-rose-to-1-point-7-trillion-in-2017-arms-watchdog-says.html>

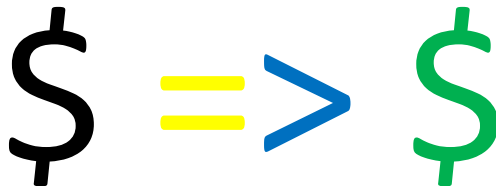
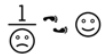
**Our selfishness is rapidly leading us to the terrible tragic tipping point trillionth ton
CO2 heats the planet up, tundra melts, methane released, and all life is done
The solution is simple, like buying insurance for our property and health
We just have to spend a modest portion of our paper wealth**

**And we can control carbon with hedges
Split up the complex problem with wedges
Transition from black to green at an increasing rate
and all have good jobs and profit while avoiding a dire fate**



**Some think all the hydrocarbons they own they can sell
but soon it will drive the climate and us all to hell
Instead they should carefully sell just enough
and invest dollars in renewable energy stuff**

**The key is to invest wisely to turn black into green
and become owners of many a renewable energy machine
Harvest energy from the earth, wind, water and the sun's rays
They can forever bring income, peace, happiness, glory and praise**



1
2
4
8
16
32
64
128

**Humans take heed
A carbon "tax" we need
Start slow and rise steady
So all can plan and be ready**

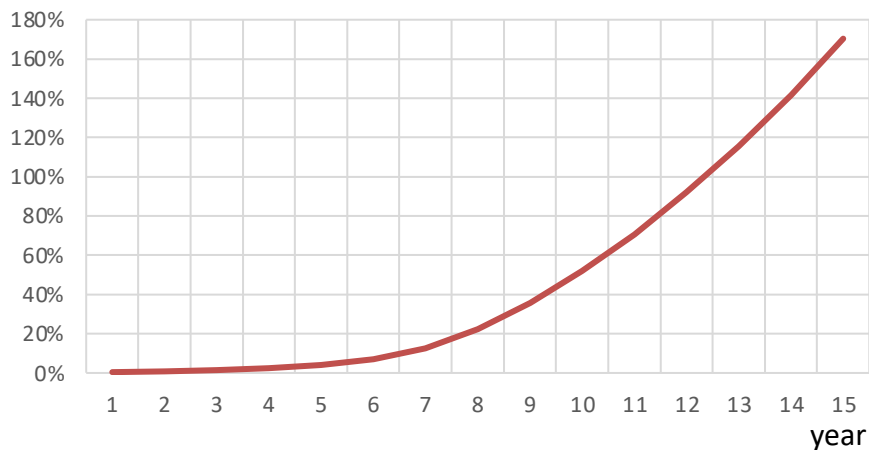
**Start with a tonne costs a dollar
And no one need complain or holler
It's a simple solution to decarbonization
Carbon tax spent on renewable electrification**

$\frac{1}{2}$ ☹️ ➡️ ☺️



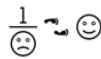
[https://commons.wikimedia.org/wiki/File:Taft_oil_well_blow-out_in_Kern_County_ca_1920_\(CHS-2498\).jpg](https://commons.wikimedia.org/wiki/File:Taft_oil_well_blow-out_in_Kern_County_ca_1920_(CHS-2498).jpg)

% CO2 offset



But carbon producers relax
There's an alternative to a carbon "tax"
Take just 10% of the gross you sell to burn
and invest in renewables for a sustainable return

It's a BIG idea that's very keen
Invest income to turn Black Into Green
Produce carbon and buy renewables now
and create a long term carbon free cash cow



<https://www.ndtourism.com/articles/north-dakota-makes-advances-energy>



Applied Energy
Volume 247, 15 May 2019, Pages 1189–1197



Black into green: A BIG opportunity for North Dakota's oil and gas producers

David D.J. Taylor^{a,1}, Mariya Layurova^a, David S. Vogel^{b,c}, Alexander H. Slocum^{a,d} 

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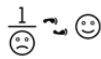
Highlights

- The business inertia of hydrocarbon production can accelerate wind energy production.
- Emissions-to-price ratio makes BIG funding feasible for oil and natural gas in ND.
- BIG's wind farm is funded from 10% of hydrocarbon revenues and \$0.03/kWh of wind power.
- Over 40 years, ND's oil and gas can fund 89,000 wind turbines, generating 155GW.
- This wind power offsets 100% of the well-to-wheel emissions of ND's oil and gas.

<https://doi.org/10.1016/j.apenergy.2019.03.158>

**Jobs for many are at hand
to farm, replant, and help the land
Its as simple as Re and Afforestation
to play a big part in resilient decarbonization**

**5.5 million miles of overhead lines powers US
Under them plant switchgrass and *Brassica napus*
Planting 1/3rd would equal a one gigawatt powerplant
Funding the Department of Energy should be quick to grant**



<http://be-eco-friendly.blogspot.com/2011/04/reforestation.html>



<http://chinaolus.cri.cn/mychina/life/35/20170804/13916.html>



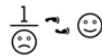
<https://articles.extension.org/pages/26635/switchgrass-panicum-virgatum-for-biofuel-production>



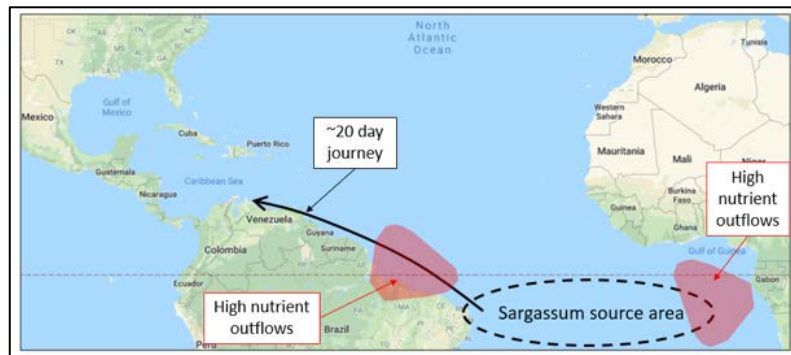
https://upload.wikimedia.org/wikipedia/commons/8/8b/Rape_Field_-_geograph.org.uk_-_759058.jpg

**Agricultural runoff is flowing into the warming ocean
And so excessive seaweed growth is set into motion
Our oceans have become a giant garbage patch
The flow of plastic we must stop and catch**

**Selective Ocean Sequestration of Carbon could be a key
Clean up the oceans and help us become carbon free
SOScarbon to the bottom many kilometers deep
Under intense cold and pressure it will keep**



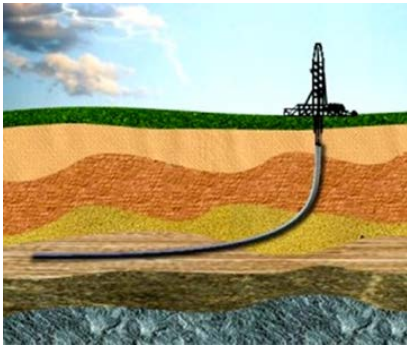
www.soscarbon.com



**Don't just drill for oil and gas to burn
also seek long term CO2-free return
Invest now 10% of all your worth
and drill for heat in the earth**

**Energy for “free”?
The key is a high COP
For every Watt in you pour
a heat pump can give back four**

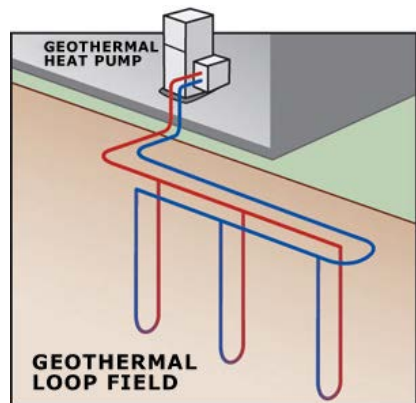
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https://www.rigzone.com/training/insight.asp?insight_id=295



http://www.slb.com/services/drilling/drilling_services_systems/directional_drilling/powerdrive_family/power_drive_orbit_rotary_steerable.aspx



<http://www.heddenbrosnelldrilling.com/geothermal.html>

**If you have dug a big deep hole
from which you extracted the coal
then create an upper and lower lake
Pumped Storage Hydro you can make**

**From coal get other molecules directly
Carbon fiber and polymers if cooked correctly
Think composite planes and wind turbine blades
A new economy for miners and all sorts of skilled trades**

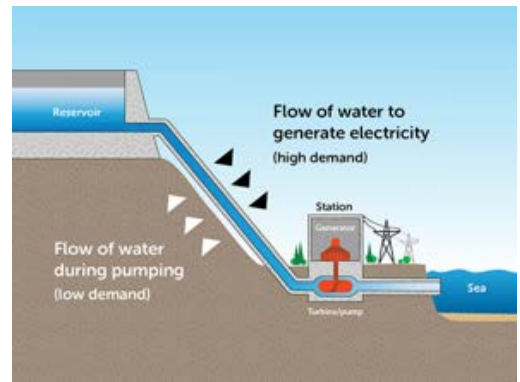
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<https://www.materialstoday.com/carbon-fiber/features/carbon-fibre-producers-optimistic-in-downturn/>



<https://www.kolotv.com/content/news/Push-to-close-last-Nevada-coal-plant-centers-on-money-416509173.html>



<https://www.energy-storage.news/news/energyaustralia-ponders-worlds-largest-seawater-pumped-hydro-energy-storage>

<https://www.sciencealert.com/scientists-spot-530-000-potential-pumped-hydro-sites-to-meet-all-our-renewable-energy-needs>

Process old coal ash,
it's a resource to generate cash:
Extract valuable "toxic" metals, and last,
make concrete and offshore turbines' ballast

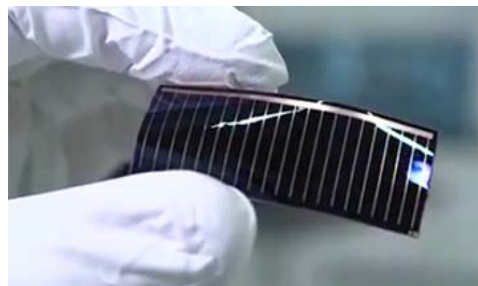
Market the minerals well
and make many a GaAs solar cell
Waste nothing and be resource efficient
Symbiotic thinking is key to being proficient

$$\frac{1}{\text{sad face}} \rightarrow \text{happy face}$$

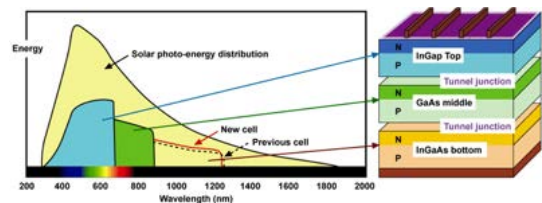


<http://apvoices.org/coalash/>

<https://pdfs.semanticscholar.org/425a/ce511a505f1876f866f9a2b7afaf77c4c57c.pdf>



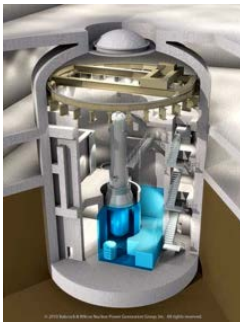
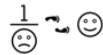
<https://www.altadevices.com/technology/>



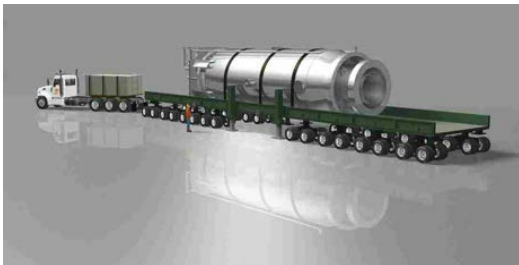
<http://www.sharp-world.com/corporate/news/130424.html>

**Power from the atom is part of the answer
to help ward off painful climate change cancer
Modular standardized reactors can be done right
and they will ensure the lights burn through the night**

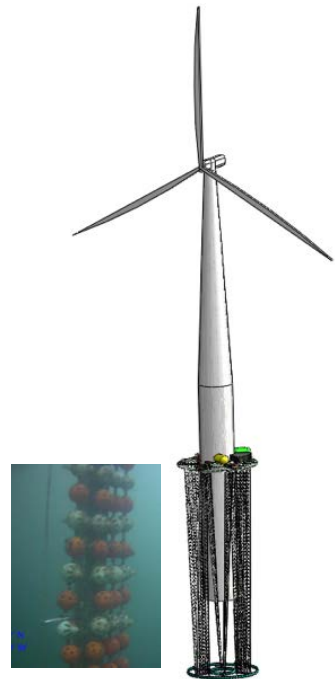
**Nuclear fuel from the sea
can give us endless power CO2 free
Robotically process or bury spent fuel on site
re-use and vitrify to prevent hazardous waste blight**



[http://powertrends.blogspot.com/2010/07/s
mall-modular-reactors-fun-and-exciting.html](http://powertrends.blogspot.com/2010/07/small-modular-reactors-fun-and-exciting.html)



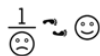
[https://www.npr.org/sections/thetwo-way/2017/01/13/509673094/miniaturized-
nuclear-power-plant-u-s-reviewing-proposed-design](https://www.npr.org/sections/thetwo-way/2017/01/13/509673094/miniaturized-nuclear-power-plant-u-s-reviewing-proposed-design)



<https://www.sciencedirect.com/science/article/pii/S2213138814000848>

**We need a resilient electric grid
so of reliability worries we can be rid
All help with a small extra fee to remit
We can bury the lines for power we transmit**

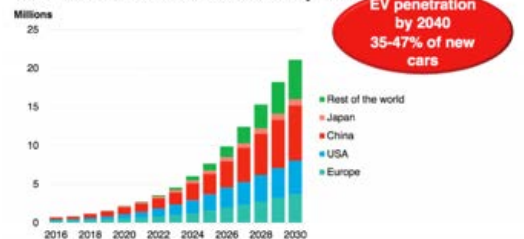
**Batteries can share and smooth the load
to store energy and propel us down the road
Auto companies and workers need not suffer a rift
Excess capacity to make renewables can help the shift**



<https://spectrum.ieee.org/energy/the-smarter-grid/utilities-bury-more-transmission-lines-to-prevent-storm-damage>

The Rise of Electric Cars

BNEF sees more than 20 million sales by 2030



<https://gas2.org/2017/04/26/total-electric-cars-decrease-demand-gasoline-2030/>

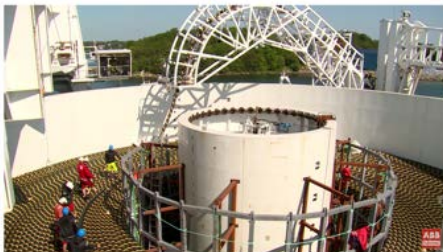


ABB launches world's most powerful extruded HVDC cable system

<https://www.youtube.com/watch?v=ie5lNqMXNSQ>
<https://new.abb.com/systems/hvdc>

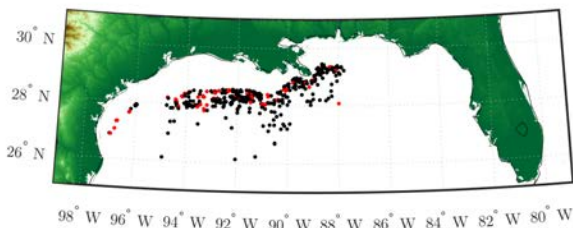
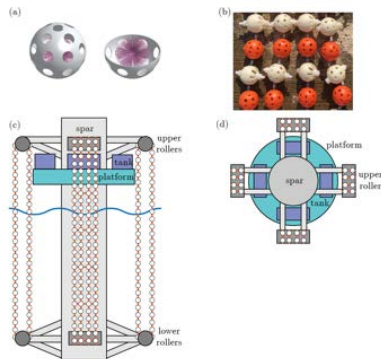


<https://www.teslarati.com/tesla-gigafactory-1-solar-rooftop-array/>

**A green new deal
 Could have great appeal
 But as with each new revolution before
 History teaches energy and minerals we will need more**

**It will take massive amounts of metals to be newly mined
 while on the land there are not enough to nicely find
 they exist abundantly dissolved in the ocean
 Industry just needs to be set in motion**

$\frac{1}{2}$ ☹️ 😊

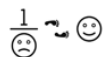


<https://www.sciencedirect.com/science/article/pii/S1364032119300838?via%3Dihub>



**The Middle East's oil has generated incredible wealth!
but is it worth a future of ever worsening health?
Long ago the region was the cradle of civilization
Now become a catalyst for climate salvation**

**All the countries in the region
Form a renewable energy legion
In your hearts you know what to do
To us all, Mother Earth, and Allah be true**

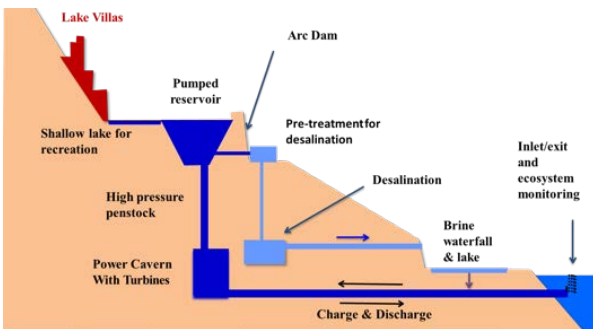


It can be foreseen that from every Arab Nation
there can be brotherhood and reconciliation
Trade weapons of death and destruction
for renewable systems construction

Together build resilient and renewable energy systems on land
with pumped seawater hydro storage for power on demand
Fresh water flowing freely from desalination
Lead the rebirth of human civilization



<https://www.siemens.com/ma/en/home/company/topic-areas/ingenuity-for-life/tarfava-wind-farm.html>



<http://www.sciencedirect.com/science/article/pii/S2213138816300492>
<https://www.youtube.com/watch?v=4qboKpiqWTY>



<https://www.power-technology.com/projects/sweihan-photovoltaic-independent-power-project-abu-dhabi/>

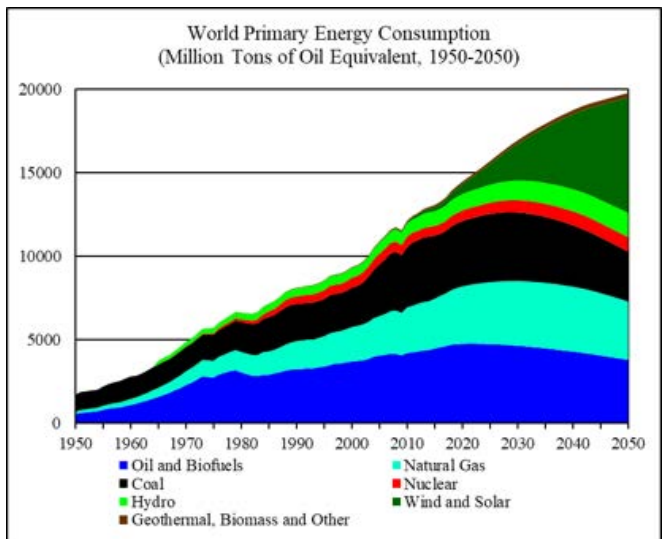
**All war torn and gang infested lands
 People come together with helping hands
 Cast aside differences and human madness
 Build new economies and chase away sadness**

**Let the sun shine on solar panels making power for all
 and even more from wind turbines standing tall
 Renewable power built by workers skilled
 A bright future for us all we can build**

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<https://www.dw.com/en/global-conflict-continues-to-rise-index-shows/a-44090159>



<http://peakoilbarrel.com/world-energy-2018-2050-world-energy-annual-report-part-1/>

**Help us oh great leaders of the world's many devout
Please pray, stand up, preach and loudly shout !
It's time to end all the distrust, war and hate
People and planet together can all be great**

**Its been said in many different ways
How each of us should live out our days
How we should be kind and truthful to each other
Let it also be said we must treat the planet as our mother**

- And I brought you into a plentiful land to enjoy its fruits and its good things. But when you came in, you defiled my land and made my heritage an abomination. [Jeremiah 2:7](#)
- *But ask the beasts, and they will teach you; the birds of the heavens, and they will tell you; or the bushes of the earth, and they will teach you; and the fish of the sea will declare to you. Who among all these does not know that the hand of the LORD has done this? In his hand is the life of every living thing and the breath of all mankind.* [Job 12:7-10](#)
- *Indeed Allah will not change the conditions of a population until they change what is in themselves.* [Qur'an 13:11](#)
- *Pancha Mahabhutas: Five Great Elements (space, air, fire, water and earth); and Dharma (cosmos), Karma (ourselves), Ahimsa (non-violence) , & Sanyasa (restraint)* [Hinduism and Buddhism](#)
- "Mathematics is the language in which God has written the universe" [Galileo Galilei](#)
- "Imagination is more important than knowledge. Knowledge is limited. Imagination encircles the world." [Albert Einstein](#)

**When the sun and wind brings power to me and you
We can all together be eatin' that rainbow stew
Nelson Mandela's ideas for reconciliation
can be a key to decarbonization**

**Prisons must become a place to rehabilitate
Learn useful skills and not just incarcerate
Opportunities for all can stop the hurt
Even if just to plant trees in the dirt**

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<https://energynews.us/2018/12/03/midwest/minnesota-prison-program-aims-to-prepare-inmates-for-solar-jobs/>



<http://www.clog-online.com/news/announcing-clog-prisons/>



<https://www.nh.gov/nhdoc/divisions/correctional/index.html>

This is a call to all earth's song writers and musicians
please become the planet's climate physicians
Climate change causing many a yelp
we are desperate for your help

We need to all to raise their voices and harmonize
to sing aloud *Yes We Can* rapidly decarbonize
Bring on lots of concerts for climate aide
invest in renewables the money made



<https://www.prosoundnetwork.com/archives/live-aid-25-years-ago>

Soon to come: *CaribbeAid*



<https://www.farmaid.org/press-release/farm-aid-2018-sells-out-four-hours/>

*Preppers take note
Everywhere will be smote*

*We can no longer stall
The writing is on the wall*

*Nature does not care
if our cupboards are bare*

*As we pursue personal wealth
we destroy our planet's climate health*

*At least after the waves wash us away
Other creatures can live to enjoy a new day*



<https://ichef.bbci.co.uk/images/ic/1024x576/p080nn1d.jpg>

*On your actions reflect
Nature demands respect*

*But do not despair
Our world we can repair*

*No need to be forlorn
everyone can be reborn*

*Forget what you have spent
think how best you can repent*

*Set aside your vanity
focus on helping humanity*

*Stop personal and climate strife
and for all achieve everlasting life*



**As sure as the sun sets, we are in charge of our fate
but we all must make haste and not stagnate
We can control pollution, hunger, and strife
and together paint a joyful canvas of life**



**The vote must be unanimous
Make All Great And Magnanimous
Our actions must show the world we care
A model for peace and prosperity everywhere!**



Put The World First

Marc Graham and Alex Slocum,
<http://www.untoldrecords.com/marcgrahamphd/worldfirst3.mp3>

The most important calculations are those that will save nations,
Like building wind plantations, instead of more gas stations,
And seeking new destinations in space, is complicated,
The Earth is worth saving from troubles that we created,
It's time to double efforts, in land, water and sky,
It's time to come together, it's time to solarize,
The answer is blowing in the wind and flowing in the water,
The polar caps are melting, sea levels are on a rise,
Surprised that super storms still haven't opened our eyes,
Some scientist theorize, and politicians decide,
That man is not at fault, so they gamble with our lives,
Let's get off the sidelines and show we're not psychotics,
Insane, awaiting change from the same planned periodic,
Debates with fate at stake, of our consequent generations,
Reversing the complications, requires more impatience,
No time to be wasted, this fight is not symbolic,
A catastrophic plight, or relationship symbiotic... Decide... It's Time...

Action, no longer passive, too massive to stagnate,
Reaction, we seize the moment, accelerate to create,
With force, remove mobs from desperate situations,
Renewed energy jobs, will lay the foundations,
Question, research, guess, test, analyze with a passion,
'Cause building what we create, is the prevalent high fashion,
Our fate's in our control, so let's stand hands united,
The only way we'll fold, is in a world divided
It's time we all put the World First