

Sir,
congratulations on your successful re-election campaign!

However... the climate issues are no part of it, right? But you WILL be compelled to deal with the enviro-energy combo issues sooner than later. You must realize, and make US citizens realize, that greenhouse warming is leading us on a road to desolation.

Bear in mind that the current NY/NJ hardships caused by the "Sandy" storm are just a tea-party event compared to an every-year occurrence of even the near future: flooding of your major east coast cities and infrastructure, and REAL hurricanes. Also bear in mind that a hurricane category 5 implies up to TWICE the wind-speeds that NY/NJ experienced in the last couple of days.

And YET, your economists assess the damage done to 30-50 billion USD. The plunder uncounted. What price-tag would LOSING NY, Boston, Philadelphia, Washington, Baltimore, Miami, et cetera have? The entire east coast infrastructure? Public anarchy and human suffering uncounted? In addition, flooding the US west and south coasts too?

See here the effects of sea-level rise, where you can choose different level-rises (for storm conditions add at least 2 meters to the level-rise indication):

flood.firetree.net & geology.com/sea-level-rise

Would it be better to lay plans for US citizen refugee camps and a permanent military state of emergency later, than to act proactively NOW at virtually NO COST, creating market incentives, saving environment, rendering low-cost clean energy independently of foreign suppliers, boosting the economy instead of a pyramidal expenditure, and creating jobs? AND making history – acquiring fame as "the guy who COULD do it, who also DID it".

So, read the ensuing few pages of this pdf-file through, and then get back on-line so that we may lay plans for an economically, environmentally AND politically PROFITABLE future for the US AND for the rest of the world.

If you embrace my proposition and see it through, the good-will from all the world in favor of the US will prevail - THAT I can guarantee. That, PLUS that you will save NY and other east coast cities from becoming uninhabitable, and infrastructure from being useless.

After all, THIS link proudly proclaims that businesses in America shall "out-innovate, out-educate, and out-build the rest of the world":

whitehouse.gov/economy/business#sub4-tab

Respectfully and Sincerely,
Mr. Per Lindell

(message follows next page:)

An urgent message for Mr Obama aimed at boosting his presidential re-election campaign

First of all, Sir, my congratulations to your successful campaign – our family puts a firm trust in you winning! Were we American citizens, our votes would always go to you Democrats.

I hope my intentions shall not be shaded by my somewhat poor standard of English, frank and outspoken at places.

A Swedish senior IT web developer, database expert, and technical writer, this semester I attend a class on Environment and Sustainable Energy Systems at LTH – the polytechnical college of Lund, a part of Lund University, Sweden. Also, I am now constructing a website with ambitious ends:

Arousing public awareness and seeking corporate collaboration on applying *artificial photosynthesis* to solving the planet's combined need for *near-future clean low-cost energy* and atmospheric *GHG regulation-to-our-needs*.

→ **GHG** = greenhouse gases: *carbon-dioxide, methane, ozone, water vapor, and dinitrogen-oxide (a.k.a. laughing-gas)*

As you know, sea level rise is accelerating as you read this – on an average 3 mm per year, but along the American east coast currently at the rate of 7-9 mm per year due to the slackening Gulf Stream. So my heart has pounded ever faster over the last decade or so, for doing something radical in favour of our future – involving on the one hand *life conditions* of present-day and coming generations, and on the other *zero net emission fuel and energy* production. Now I have elaborated the trick for seeing both wishes come true, with no detriment to one another.

The trick, in brief: *CCS (Carbon-dioxide Capture and Storage)* techniques are in the discussion phase around the world. So are *Artificial Photosynthesis* techniques among multi-discipline scientists. This is where my solutions come into play, suggesting we humans turn *hostile* (and eventually fatal) Carbon-dioxide and other *GHG* into an *eternal friend* of ours.

With this letter you will find attached an image I made in order to visualize the conceptual outline of artificial photosynthesis. It presents how GHG + sea water + sunlight + some catalyst will produce energy, just like plants utilize their *natural photosynthesis*.

Instead of a costly and far-below-the-mark global Carbon-dioxide piping *infrastructure* construction, now sketched at high environmentalist levels, and an ensuing below-ground or deep sea *storage* hardship, this is what we *should* do with the captured or extracted Carbon-dioxide:

The intrinsic energy-half of *Carbon-dioxide (Coal)* should, by means of *artificial photosynthesis*, be combined with the intrinsic energy-half of *water (Hydrogen)* into a variety of energy forms as required from time to time on the market. The *output* can, by means of the active chemical *catalyst* employed (this is what makes this photosynthesis artificial), be designed to meet market demand of products such as *electricity*, pure *Coal*, pure *Hydrogen*, *gaseous hydrocarbons* like methane, ethane, propane, buthane etc, *liquid hydrocarbons* (a mix whereof making up gasoline), or alcohols like methanol (methyle alcohol) and ethanol (ethyle alcohol). The only exhaust gases will be pure Oxygen (plus Nitrogen where laughing-gas be the input). Another possibility will be to produce *electricity* or pure *Hydrogen* alone from just sun, water and some catalyst, which has come the farthest in research labs but which thus eliminates the atmospheric GHG level control possibility (an ever increasingly urgent need since today's level is already 430 ppm in contrast with the preindustrial level of 280 ppm).

The *Carbon-dioxide* would either be *captured* at the power plant site, right out of the smokestack after the energy generation step, or "*vacuumed*" i.e. extracted (just like other GHG) from out of the atmosphere. Then put through the *artificial photosynthesis* step, rendering *electricity* or *energy* – i.e. *energy* to be *recirculated* into the energy generation step at the *power plant* premises (like pure Coal, methane or other hydrocarbons, alcohols, and possibly pure Hydrogen), or *fuel energy* for *distribution* or shipping, like LNG (methane), liquid hydrocarbons, alcohols, pure Hydrogen, and possibly pure Coal.

Beneficiaries would be *oil companies, power plant owners* and *electricity power companies* around the globe, to mention a few. Whether "Peak Oil" already be here or not is of no future concern or relevance actually – the GHG *already emitted* into the atmosphere and the GHG rendered by *burning more fossile fuels* – coal, oil, gas – can be *recycled, regenerated* and *reused* in eternity. The output products have every possibility of utilizing *present-day infrastructure* in terms of *pipelines, harbors, depots, refineries*, LNG-/oil-/gasoline-*tankers*, gasoline/diesel *trucks*, gas *stations* etc. Today, industrially proven techniques for the *CC* portion of CCS are shortly to be applied and tested at power plant pilot installations in China and elsewhere.

But – and this is *the crucial point* – instead of effecting the *S* portion (for storage) of CCS by *wasting* the extracted Carbon-dioxide in some exhausted, empty oil well cavity or on some 3000+ metres deep sea floor (where they *only hope* it would stay), the Carbon-dioxide really *should team up* with sun and water, and get *reused over and over again!* Research goes on and on, but we cannot and need not wait any further. Now is the time make *every best practise* available *today* at our disposal and our command. *New* research findings will still be handy *along the way...*

Sir, you now (Oct. 13) have 23 days to go before the curtain-fall implying that campaign efforts unseen and unheard may never even come to light. This means that you now have 23 days to convince Americans that you truly have the grasp of *know-hows and how-tos on saving our planet and simultaneously creating American jobs* in your future

society, that the republicans do not have: **the Energy-Climate-Economy combo**. In addition – by pursuing the operations discussed above, you would appease the joint **coal, oil and gas industry**, and even contribute to leading it in a direction of further development into a new era – with a **clean** conscience.

One last piece of advice, with all due respect, Sir:

Address this **now**, before the short-sighted mob enrolls and signs up the industry and lobbying mob from sheer dead-end-street expedience & prestige, thereby locking true & prosperous solutions out in the cold (in the **heat**, actually). Painting oneself into a corner implies staying there for some time just waiting... time we don't have on our hands.....

My proposition is that you make me an impresario slash advisor of yours on matters **helping US government and companies boost energy sector employment and make loads of money from generating sheer inexhaustible clean energy out of GHG, simultaneously controlling the level of atmospheric Carbon-dioxide and other GHG**. I know how to deliver truthful impact on issues at heart. And now it's time to really open the eyes of industry leaders, politicians, and the people – thereby arousing **opinion, market demand, and business incentive. In the US first!**

I couldn't help coming up with a few (more or less appropriate) one-liners -- after all, Americans love their kind (?)

" Everybody's talking about B2B and B2C... I say let's get D2B and D2C ! " .

" **D2B** as in Let's get **Down to Business** "

" **D2C** as in Let's get **Dirty to See** what's in there for me " .

" No more time to sit tight, just start doing it right " .

As I mentioned in the ingress, I am currently developing a **web-based centre and intentionally natural public forum** for issues discussed above, and lots more related.

The present URL is referens.se but later on I might host it with some of the "trade mark" domain names that I registered only last week for this purpose, e.g. arphosis.com, arphosis.net, or arphosos.org (or **arfosis** with an "f"). As you can see, **arphosis** is an acronym of **artificial photosynthesis**, and I anticipate that, as this acronym gets more familiar and well-founded to everyone, a new gleaming **notion** is born. It has hitherto never been uttered by a soul (all internet searches come up with zero), so this seems in fact to be my "baby". Would you have liked to mint this notion? No problem, we'll include it in a deal and it'll be your baby – along with domain names, prices agreed.

Today, you will find only a rough draft web version, at this point disclosed to the public. To date it does not have a very "sexy" design or format, and it is not even translated from Swedish into English yet. It needs to gain enough momentum before going public, in order to keep thieves of the concept and web code at bay. But I am well underway with this – so stay tuned during next week and the weeks ahead, because gradually it will be translated, expanded, more apposite and easy to adopt personally. The scientific and other material aim to embrace the field entirely (in a pedagogic and intuitive fashion), including **virtual blue-prints** offered to a client category willing to pay for it – at the same time that I would want to give it away for free, I still have to make a decent living for my family.

My business idea is to offer free-of-charge membership for a limited information set. Companies and organizations will be able to advertize at maximum 0,10 EUR per pixel and year (some environmental organizations and other important players might be advertising for free). Furthermore, sponsors, donors, partners, and equity buyers hopefully will find an interest, getting publicity out of it. There will be an annual share dividend on equities, as a percentage based on the amounts from sponsors, donors, partners and to a minor degree advertisers, but my company will not be listed on the stock exchange. The ground rule is, that **the more money** you put in, **the more information** you will get in return, following a few step ladder or staircase model.

Having read thus far, Sir, it's time for you to consider the economy side of my proposition.

~~In order to disclose the portion of this document (yellow passage above + graphics below) in which I account for the crucial points of the operations plan, I require a handout from your administration of a symbolic 1000-USD. (Thanx!)~~
This stated, you too would have to pay for **blue-print type of crucial scientific and business information** as soon as it's available (in a week or so) inside the web centre described above. Equity buyer, partner or other client models may apply here. However, given the upcoming elections, I am prepared to stand by for an initiative from you in this direction, before going public on the web portal with my blue-print type offer.

If you find an interest in what you have just read, please contact me via email or cell phone.

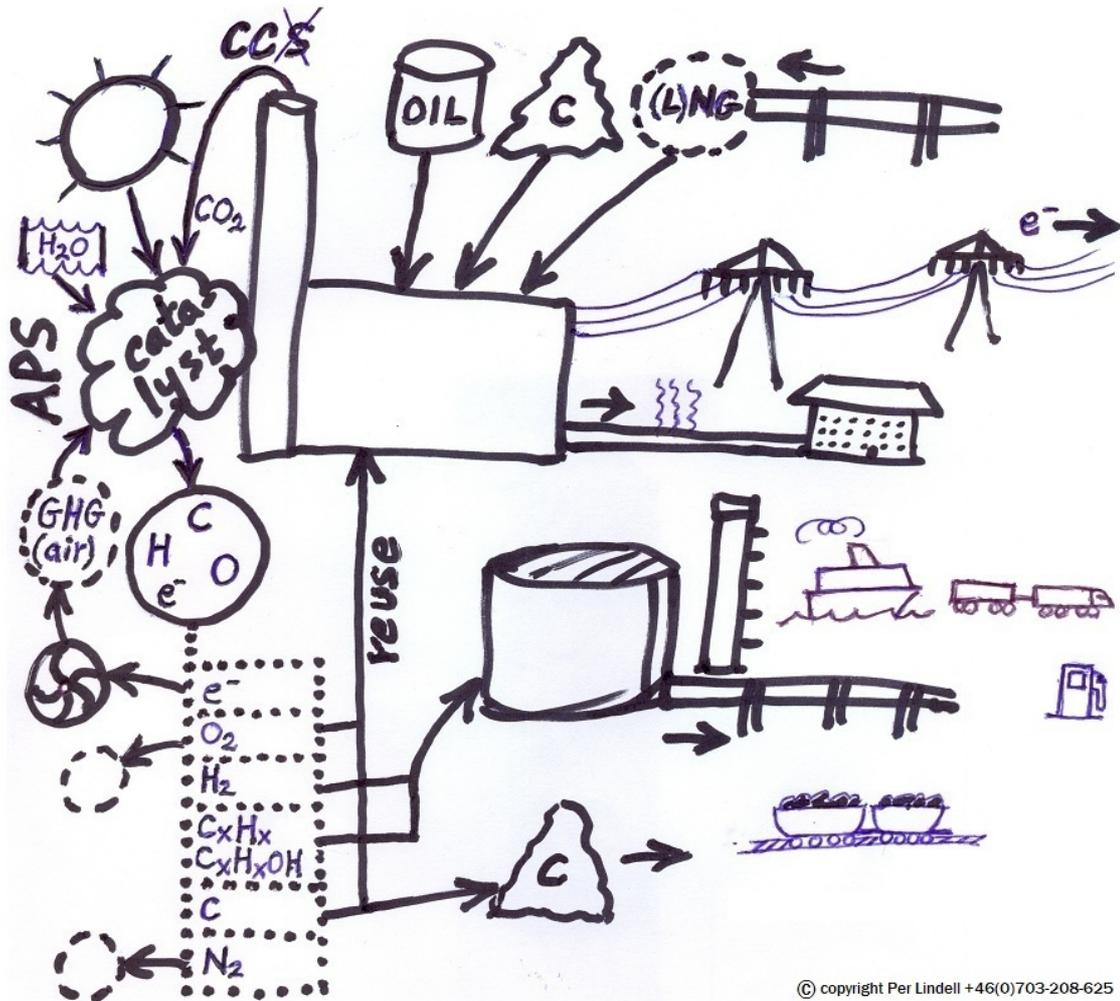
Respectfully and Sincerely,
Mr Per Lindell

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" Fire is a good servant but a bad master "

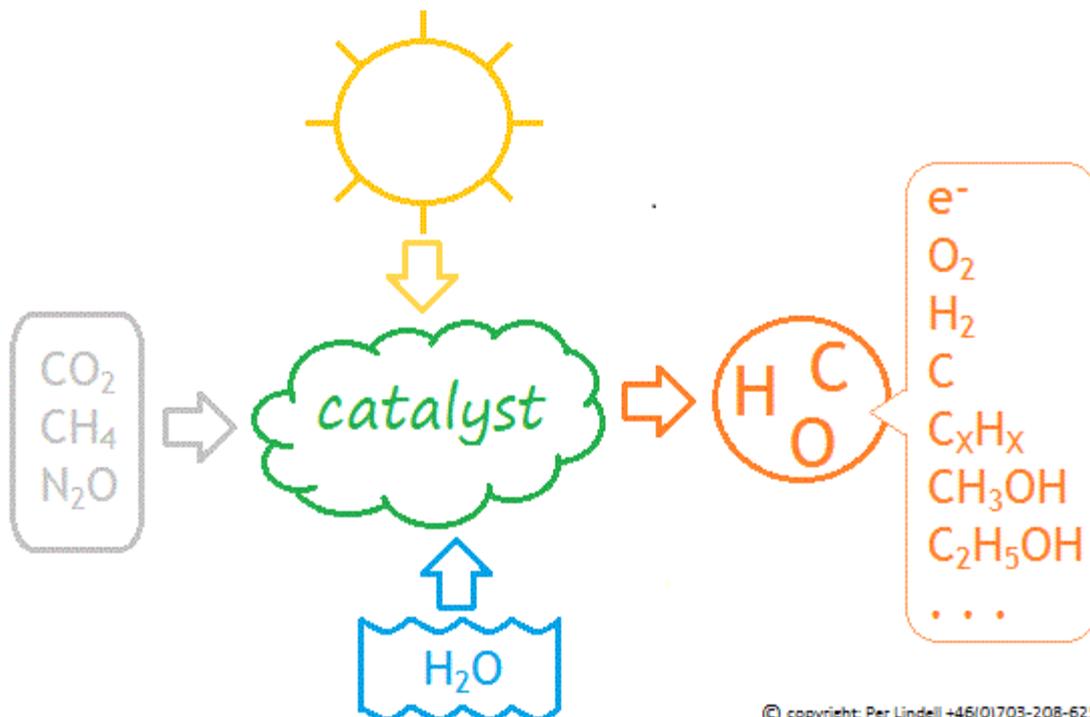
Attached (below): **artificial photosynthesis (APS) applied** & **artificial photosynthesis outline** (both: copyright Per Lindell)

artificial photosynthesis (APS) applied



© copyright Per Lindell +46(0)703-208-625

artificial photosynthesis outline



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