

# Life on Venus is absolute hell, but doable

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For the likes of all those folks that can't possibly think outside their box, much less handle any humor; Here's another tough go at my plot, my hidden agenda, my ulterior motive to overthrow the US government by way of proving life (not necessarily of purely organic origins) once existed and may even have survived in spite of our all-knowing selves. In other words, I've been leaving the front door wide open for accommodating ETs.

This isn't suggesting that Venus is sufficient for humanity. Although, here's my short list of items if found upon Venus that would need hardly if any energy in order to function. I'm even fairly certain that you can do this one better, that is unless you've been spending way too much time in the company of Charles Manson and Ted Kaczynski.

1) OVENS and TOASTERS, as obviously if there's something/anything that needs to be cooked, as such we're talking about somewhat seriously terrific combinations of extreme flash, extreme pressure and certainly highly convection style cooking on steroids. Entirely self cleaning no less.

2) HOT WATER, as in you've got to be absolutely kidding; Whom in their right lizard or exoskeletal mind would ever have to utilize artificial energy for heating water?

3) CHEMICAL PROCESS HEATING, is another fairly obvious done deal, as besides the ambient conditions and especially along with loads of nearby geothermal considerations that you'd think should be fairly hard to pass up. Thus whatever artificial process heating combined with a little vacuum is going to be accomplishing a great deal of energy intensive work without hardly 10% being artificial joules worth of contributed energy.

4) ELEVATORS, as in buoyancy (balloon lift) on one end of the equation and otherwise 90.5% gravity along with basalt/silica composites that are nearly 1:1 against that nifty atmosphere, especially if those structural composite microspheres are displaced with h<sub>2</sub>.

5) NIGHTTIME ILLUMINATION, as either via bio-illuminating cells or naturally fluorescing substances, and/or powered by bimetallic

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(Chromel/Alumel) thermopiles can easily accommodate up micro-gap Xenon lamps, and obviously that's without any need for having pressure containment of the required CO<sub>2</sub> nor gas preheating. Thus binary code/pulse xenon should be another natural.

6) WASTE DISPOSAL, of just about anything you can think of becomes history and/or sterilized shortly after being placed outside. Porta-incinerators instead of porta-potties, and so forth.

7~99 you pick just about whatever needs a small or even a fair amount of energy on Earth, and it'll likely become nearly energy free upon Venus.

A short list of some things requiring a slight bit of energy;

a) Obtaining fluids from those somewhat cool nighttime clouds is merely a matter of deploying a balloon or small rigid airship (robotic if need be) into those clouds, collecting whatever amounts desired and returning to the surface, as perhaps already processed into pure H<sub>2</sub>O and/or H<sub>2</sub>O<sub>2</sub> for safe keeping).

b) Distillation process of obtaining water would require evaporator pumps and some methods of containment (slight pressurization). Simply taking advantage of the relatively cool nighttime environment that's near or especially within those clouds, as otherwise there's loads of capable geothermal process cooling that may require about 100 times the surface area as per heat-exchanging here on Earth, which should also more than accomplish the distillation process of condensing.

c) Processing the already toasty and nicely pressurized CO<sub>2</sub>→CO/O<sub>2</sub> seems somewhat of an obvious done deal, although as a byproduct or perhaps intentional side benefit of that same process of having to electrolytically leach CO<sub>2</sub> through a ceramic membrane on behalf of extracting CO/O<sub>2</sub> is also suggesting the opportunity of geothermal heat-exchanging upon some portion of that processed CO<sub>2</sub>, essentially releasing the highly pressurised, cooled and thereby nearly liquified CO<sub>2</sub> through an evaporator that's good for whatever amounts of extracting those surplus VTUs that you can possibly think of.

d) Once the CO<sub>2</sub>→CO/O<sub>2</sub> process is underway, the next consideration is for getting rid of that nasty CO by way of storing it for the task of burning that substance along with whatever other substance(s) are on hand, such as the product of O<sub>2</sub> and/or perhaps even a bit of H<sub>2</sub>O<sub>2</sub> from the process being utilized for the safekeeping of H<sub>2</sub>O.

e) Next to Hot-Tubs, Rigid airships are all the rage on Venus; Constructed of basalt/silica composites, thus extremely lightweight and insulative to the tune of R=1024/m. As for having 65+kg/m<sup>3</sup> in buoyancy, surrounded by a calm and essentially crystal clear ocean of mostly CO<sub>2</sub>, plus a retrograde atmospheric flow that helps keep yourself within the season of nighttime is like having a tidal flow that nearly always going exactly where it is you'll need to go. However, burning off the likes of

CO/O<sub>2</sub>, and possibly even a touch of H<sub>2</sub>O<sub>2</sub> if you required an energy booster for getting your rigid airship up to some serious speed and thereby safely through and cruising above them relatively cool nighttime clouds is technically doable.

f) Vacuum tube electronics are robust and actually energy efficient, right at home within the worst possible daytime of 750°K, or even the worst possible Venus style death valley of 811°K is technically doable with thermal tolerance to spare. Of course, in the season of nighttime when the elevated terrain gets below 600°K, chances are that some extra energy will be required for keeping those cathodes hot.

g) Venus internet is rather exceptionally efficient, whereas individual stations using a laser of perhaps 10 mw and 0.5 milliradian operate as far as the nocturnal eye can see, which is actually horizon to horizon because, the atmosphere below those cool nighttime clouds is nearly always crystal clear. Thus conventional binary packets are good for go, and/or quantum binary enables 1e12 bps to flow from FIFO transponder node to transpinder node, easily and efficiently covers their local requirements if not the entire globe. The FIFO transfer nodes can even be passive and/or active transponders, and depending upon the desired spectrum and throughput can be directly intercepted by the naked nocturnal eye far better off then we read a newspaper by moonlight. Overall, that's less than 1/1000 of what it takes here on Earth and, our human eyes can't hardly function below the 400 nm spectrum, not to mention we're not even using a laser internet and those FIFO packet nodes, thus we require a great deal of applied technology and loads of energy to operate it, that plus an average of 500 watts per individual PC/Monitor and accessories, which makes the Venus PC and internet usage rather energy efficient and somewhat undetectable, if need be entirely user to user or perhaps eye to eye privet.

h~z are for you to offer upon whatever needs a fair amount energy on Earth, whereas it'll likely become 1000% more energy efficient upon Venus, meaning that with the exception of ventilating and air conditioning(VAC) taking 1w/VTU, of whatever else takes 10 kw on Earth may require 1 kw if not less upon Venus.

Of what may demand lots of energy and some of that nifty R-1024/m structural insulation;

For certain the process of CO<sub>2</sub>→CO/O<sub>2</sub> is going to suck energy, although the CO<sub>2</sub> density and nicely preheating is already good for go, so perhaps there's as little as 1/10th the process energy demand as here on Earth, and certainly not 1% of what it's going to take upon Mars (this is especially attractive for Venus since none of the required process energy needs to be imported from Earth).

Then how about the task of providing one hell of a lot of subsequent air conditioning that might initially drain off 1 watts/BTU, making a Venus Thermal Unit(VTU) worth as bad off as 1:1, although that 1w/VTU

performance should be improved upon by simply increasing the heat-exchanger and evaporator surface areas by 10 fold, thus a cooling VTU as great as 10 becomes possible (energy-in = energy-out), and remembering that CO<sub>2</sub> is actually quite a darn good freon replacement.

Getting an absolutely massive (360 X 3600 m) rigid airship up to good speed (200+ knots) as cruising above them cool nighttime clouds should only take 25 some odd megawatts (intermittent 50 MW), of which a CO/O<sub>2</sub> multi-fueled turbine engine(s) amounting to 34,000 SHP shouldn't be all that complicated, or even all that inefficient, especially if the hot-sections are nearly 100% ceramic. And, don't forget those lofty Venus tail winds that are capable of kicking serious airship butt, usually in the intended direction at that.

I've been informed by all sorts of great minds that with energy nearly all things seemingly insurmountable become surmountable. Are they lying to us, or is this another one of those cold-war stings of phony baloney physics and science that's entirely conditional to the social/political whims of the era?

To the accomplishment of resident or ET folks easily obtaining said energy;  
With the modern invention of the power turbine (conventional axial as well as for the radial format which takes the fullest advantage of pressure, mass-flow and thermal differentials into account, thereby converts such into torque and subsequently joules), thus whatever's electro-mechanical or any energy demanding process gets whatever it needs, and then some. All that's required is essentially a large vertical pipe/tunnel (vertical venturi) as providing access to a suitable differential tower of power for such energy conversion from the 4+bar/km, 10°K/km and of the 65 kg/m<sup>3</sup> worth of a surrounding ocean of mostly clear CO<sub>2</sub> may transpire. By having the before mentioned power turbine situated within or at either end of that vertical tunnel, or even as situated within a perfectly natural/geological collum or vertical hollow rille passage will accomodate this method. Let's call this form of utility energy extraction and capitalization 'VENRON', that way we can feel All-American warm and fuzzy about overcharging folks a thousand to one of what's essentially renewable and damn near free for the taking.

I know that I've mentioned a few thousand times about the 4+bar/km and the likely 10°K/km of the somewhat cooler Venus atmospheric nighttime environment as being absolutely chuck full of energy potential, and that if anything I was remaining conservative. Of course, mainstreamers can't possibly even admit to getting your cold-war hands on any of that energy, especially if you've been thoroughly snookered into believing those NASA/Apollo fly-by-rocket cows are ever coming home.

The same physics that supposedly placed man on the moon, or at least into orbiting it, and got a nifty probe safely onto Titan is actually all that I'm using to support the notions and perhaps pure conjecture(s)

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as based upon deductive reasoning, that which was triggered by remote observations and my subsequent interpretations as of five years ago, of what's most likely artificial about a small area of the Venus surface. I guess most all-knowing folks would just as soon dispose of the 'holy Grail' along with the remains of their last 'Happy Meal', meaning if they don't know of nor could they even appreciate what the holy Grail looks like, it's most likely that such would have been tossed without remorse, along with all their other junk.

Have you looked at the images: <http://guthvenus.tripod.com/gv-town.htm>

Regards, Brad Guth / GASA-IEIS

<http://guthvenus.tripod.com/update-242.htm>

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