

CHAPTER 3 - SUSTAINABLE ENERGY

GAIA EFFECT EXTRAS

– Monika Muranyi

The discovery of electricity revolutionized the way we could access and use energy. It changed our lives forever, and is used on a daily basis to power everything from computers and home appliances to hospitals and businesses all across the world. When there is an interruption in the supply of electricity, there is a major disruption to society, and all efforts are made to get the power back on.

One of the negative side effects about our current system for providing electricity is that often the way we are producing it is incredibly dangerous, and can have enormous consequences on the environment. Too many times there have been devastating results when nuclear power plants fail. The construction of massive dams to create hydroelectric power has often been at the cost of environmental values. These methods are also extremely costly, and the efficiency is quite low when compared to other methods.

Humanity is slowly starting to invest in seeking alternative ways to create energy that is sustainable, safe, and produces very minimal or sometimes negligible pollution. Currently, some countries supplement their electricity consumption by using natural resources like the wind and the sun. Wind farms and solar panels are becoming more common, however, this is really just scratching the surface.



The Earth has a tremendous amount of energy that is available for us, and once we figure out how to extract the energy it's free! Perhaps this is why it is taking so long to develop techniques as there are those that do not like the concept of free energy. Thankfully, we are moving into a whole new paradigm where concepts such as this will be normal thinking.

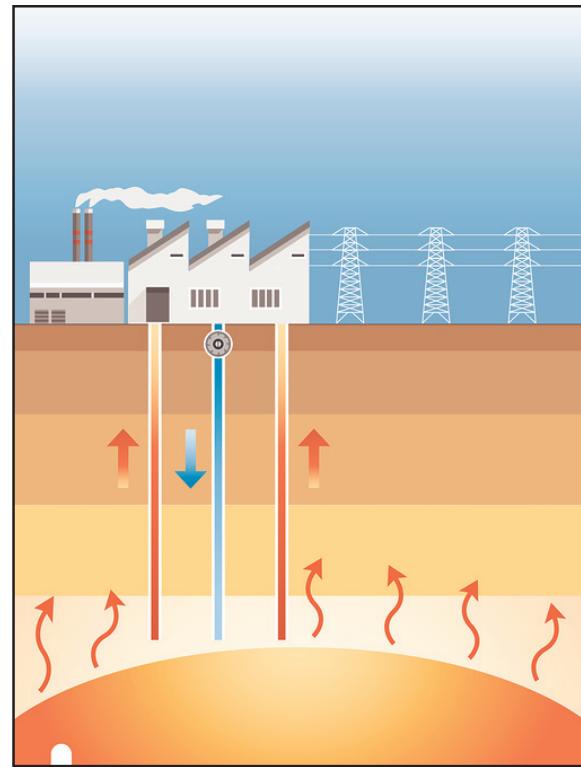
If you read the extra chapter on *The Weather*, it should be obvious that if we are heading into a mini ice age, and it's going to get a lot colder, then to combat the cold we are going to need more energy. We are also going to need water. Kryon has given many channels that provide information on these topics. The details have been summarized and presented here in this chapter.

Geothermal Energy

Natural heat exists within the Earth. It's everywhere and its supply is limitless. It will last forever and it's called geothermal energy. Through the natural process of thermal energy, steam is created and can be used to drive steam turbines to create electricity. There are currently geothermal power plants used in many countries, but according to the World Energy Council less than 1 percent of the power generated in the world comes from geothermal power. The Philippines and Iceland are the only countries with substantial systems of geothermal energy that cover about 20 percent of the electricity consumed.

One of the reasons why companies choose not to construct a geothermal power plant is the difficulty of finding a suitable site. Often the most suitable sites are around volcanos and fault lines. Clearly these sites are not ideal for constructing a power plant. In some cases, sites that have been producing steam for 10 years suddenly stop. Harmful gases can also escape through the holes drilled by the constructors.

There are currently three designs for geothermal power plants that use either dry steam power, flash steam power or binary power. Dry steam plants use steam from deep underground which runs up a tube to spin the turbine. The steam is either cooled and pumped back underground or released. Flash steam plants use heated water that is deep underground where the pressure is much higher. The water can remain liquid at temperatures well above normal boiling point. This pressurized water is pumped directly to the surface but right before it gets to the turbine the pressure is reduced and the superheated water instantly turns to steam, which then drives the turbine. The water is cooled and sent back into the ground to repeat the process. In binary plants, the subterranean water doesn't drive the turbines. It is pressurized and pumped up through a tube, same as in a flash steam plant, to where it meets a secondary tube. The secondary tube contains water at a lower pressure so the heat from the first tube flowing into the second tube boils the water that drives the turbine. The water in the first tube is then pumped back down into the Earth to gather more heat.



One of the great advantages of geothermal energy is that it does not use fuel to generate electricity. No fuel means no pollution. In very basic terms, cold water is pumped into the ground and superheated. When the water rises back to the surface, the heat is collected and converted to electricity. This process is essentially what nuclear power plants do – boil water. Millions of dollars are spent and invested on nuclear power despite the known risks and dangers. If this money was redirected, it would be able to fund the new technology for extracting geothermal energy.

In today's technology, geothermal drilling can create electricity on an industrial scale. By drilling holes deep into the Earth's crust, especially in certain regions such as the Pacific Rim, vast stores of energy is accessed. Geothermal well drilling can be a major process as these wells may go down 5 kilometers (3 miles) or more, depending on location. Drilling that distance into the Earth is difficult technically, and dangerous for the driller and the planet. Drilling down five km through the crust of the Earth has the potential to release gas, fire or water, and may even advance the potential of an earthquake.

Kryon has indicated that there are other possibilities for extracting geothermal power that have not yet been explored. They require us to "think outside of the box", but perhaps if you work in a geothermal power plant, you might get some ideas.

All along you're thinking that you're going to drill down and put a pipe in the Earth with water in it. You put water in, and get steam out. However, what if I told you that you only have to drill down a fraction of that distance, and you will find enough heat to boil fluid! You'd say, "Impossible." This feature exists over the hot spots of the Earth, which have heat very close to the surface, but those attributes don't exist in most of the places we're asking you to drill. The answer is not to use water. It's time to marry the highest technology that you have on the planet, with things you didn't expect to marry them with, and this is thinking out of the box.

This is the kind of thinking that is becoming a little more quantum, seeing the entire picture instead of just seeing what you think it should be, or what you are used to. There are solutions here, and some already know what they are. There is elegant chemistry that will boil at a fracture of the temperature that water will, and this is the answer: Learning to use those substances and those fluids with this chemistry within a geothermal closed system machine, which doesn't have to drill down five kilometers. How about two kilometers? Using this known chemistry it will be possible to drill only a fraction of the distance, and get the heat you need for steam.

So we tell you this because you're going to need to do this. If you heed this advice, you'll find that the timing and the synchronicity of discovery is at hand. That is to say, you will understand it all and realize that the elements will fall together and you will get your steam engine. And it won't take five years to build and it won't be dangerous and you don't have to cover it with a shell. Much easier. It won't belch smoke. It won't pollute, and you don't have to worry about being next to it. Think about it ... natural heat from Gaia that is forever! It will create electricity you're going to need to heat homes and businesses ... because eventually it's going to get colder.

Kryon live channelling "Needed Science for the Times" given in Albuquerque, New Mexico 14 February 2010

In summary, Kryon has suggested that a fluid or maybe even a gas be pumped down into the Earth, heated, and brought back up hot to boil the water and create steam. This fluid or gas is then pumped back into the Earth and the process is repeated. Using this technology may also mean that previous sites that were deemed unsuitable are now able to support a geothermal power plant.

Question for Kryon

Can you tell us more about the substance to use instead of water? Can this substance be used within the existing designs of geothermal plants? By using this substance does this mean geothermal plants can be built just about anywhere?

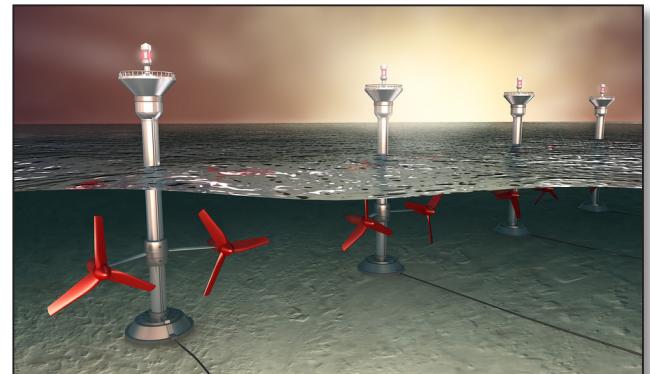
ANSWER: I have previously mentioned that there are fluids that boil (expand) at far lower temperatures than water. This was for those who think that water is the only fluid to be used in a closed system geothermal steam facility. The fluids are not that exotic, and some are already known. But humans will have to be the ones to do the work here, and I will not be listing the ingredients of this new process.

These non-water substances will have their own issues, and the closed systems currently used for water will need a re-design in order to be used with them. It's still only a redesign, and will not stop development. The Idea is the same: Heat water to make steam. The new substances won't make the steam, but instead it will heat the water that will. It's a closed system that will allow pipes to carry this substance down in to the Earth, and return the fluid very, very hot. The returning pipes then heat water to make steam for the turbines.

Tidal Energy

For more than 23 years, Kryon has talked about the hundreds and thousands of tons of push/pull energy that is available on a regular schedule. Using the power of the tides that are driven by the moon, all of the cities along the coastline can have an unlimited supply of electricity. The other benefit is that the electricity generated in this way is clean, renewable, reliable and predictable.

There is often confusion regarding the different types of tidal power. Basically, there is tidal current power and there is wave power. Several companies are already creating electricity using tidal energy and are busy investing so they can improve techniques for harnessing tidal power and wave power to generate electricity. Kryon often says that humans have a tendency to over complicate things. When I asked Lee Carroll what Kryon means regarding tidal energy, this is what Kryon said:



Do it on piers above the water, using paddle wheels – big ones that are mounted on piers, mounted into the water. The waves will turn the paddle wheels both coming and going (two wheels, or a ratchet mechanism that generates electricity both directions). This will then not need the kind of maintenance that an underwater propeller will, or the computer controls or software needed. The generators can then be ON the pier. The pier can even be disguised as something environmentally nice looking such as the oil rigs in the harbor at Long Beach California. These oil rigs are hidden by nice looking buildings complete with palm trees.

Put these in places on the coast where there are constant waves. This is step one and a quick way to get power almost immediately through existing technology.

The west coast of the USA has waves all the time. There is never a time when it's calm. In fact, many cities around the world have a coastline with this exact feature. These cities are perfectly located to take advantage of this free, renewal energy source. I'm certain that future generations will marvel at why it took us so long to figure this out!

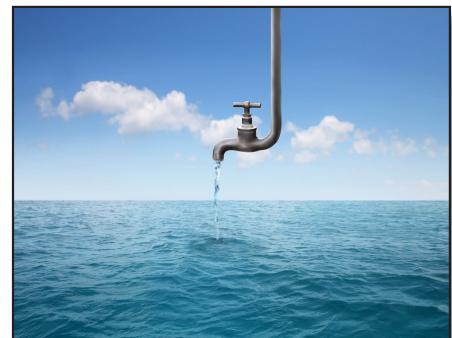
Question for Kryon

Do you have any information to assist those who are already using tidal energy?

ANSWER: Yes, and we have mentioned it before. Think simple, and consider wave power and paddle wheels where you have surf. You don't have to have a fully submerged system that is computer controlled and difficult to service, just to generate electricity. Sophistication levels do not necessarily equate with good energy solutions.

New Desalination Process for Water

One of the resources that Humanity needs most is fresh water. With all of the weather changes, water is becoming scarce in some areas. In most cases we have built our reservoirs and aqueducts in areas where the old weather patterns existed. As the population grows, the availability of fresh water will become an issue and in some countries it is already of great concern. Kryon has given one immediate answer and it involves the use of the sea and the ocean.



Desalination plants exist today, but the way that fresh water is extracted is very expensive and inefficient. A new way to extract fresh water from the sea and ocean also requires us to “think outside of the box.” Most of the largest cities on Earth are on the coastlines of the ocean, which means they are in a prime position to make use of the new desalination process (once discovered that is – smile).

One of the highest technologies that exists today is called nano-technology. Nano-science and nano-technology is the study and application of extremely small things used across a range of scientific fields such as chemistry, biology, physics, materials science and engineering. To get an idea of the units of measure involved think about this: A centimeter is one-hundredth of a meter, a millimeter is one-thousandth of a meter and a micrometer is one-millionth of a meter. All of these are still massive compared to the nano-scale. A nanometer (nm) is one-billionth of a meter. That's smaller than the wavelength of visible light, and one hundred-thousandth the width of a Human hair!

Nano-technology is an interdisciplinary field in which quantum mechanics plays an important part. Quantum mechanics is very different than Classical Physics. A person can't walk up to a wall and immediately teleport to the other side, but at the nano-scale an electron can. This is called electron tunneling. The attribute of quantum energy means that scientists have to forget what they know, and again start “thinking outside of the box.”

Kryon describes it as:

...chemistry and even *chemical machines*, extremely small, taking form as what you would call robots. These ultra small, molecular sized robots exist today, and are at the pinnacle of your new inventive efforts. Even now, your science is considering how to insert them into the Human bloodstream to seek out and kill disease... as an enhancement to the white blood cells that you currently have. That's how small the nanoparticles are...

...Nanotechnology is becoming smarter. Science is learning to make the robots *intelligent* through chemistry, through logic, through electronics. It's like the logic of a computer, which can cleverly help you to do many things. It doesn't think for you, but rather it assists you in tasks you can't do yourself. These tiny smart robots can help desalinate water... Using nano-technology Kryon describes how the salt from seawater can be removed in real time, leaving the by-product of water that has healing properties because it has been magnetized. Imagine a machine where there is a steady flow of water into the machine and out again.

Using nano-technology salty water goes in and fresh water comes out ready for standard purification. The process, as described by Kryon, is as follows:

The first stages of the system require that you release enough nano-technology robots assigned to find the dissolved salts and attach themselves to them. Here is the secret, however: every single *robot* is magnetized!

All of the salt then becomes magnetic, with tiny little nano robots hanging on to all of it. On to the next stage: Flowing into the next area, the water is exposed to tremendous, huge electromagnets, pulling the salt out of the water completely and totally, because the salt is now magnetic! Out it goes. Over simplified, perhaps, but this is the way of it. No heat is involved.

Now, the by-product ... you won't believe it! Oh, and this will be controversial when you discover it. Magnetic fields applied to water often create water that is quite healing. Do you see where this is going? What a device that might be! It would be quantum, you know, because it uses magnetics. There would be those who will say that magnetically treated water is bad for you, since you are altering it in a way that is not understood. They don't realize the amount of energy that other humans have gone through to find the healing waters of the Earth! Now you get a bit of that while desalinating water! There will be no proof either way of what is happening, so that will make it controversial. All people will know is that fewer people are getting sick!

Kryon live channelling "Needed Science for the Times" given in Albuquerque, New Mexico 14 February 2010

What does Science say?

A couple of years ago a nanotube technology paper for nanotech desalination was presented by Tasmyn A. Hilder, Daniel Gordon, and Shin-Ho Chung and this was the summary:

"Current desalination methods force seawater through a filter using energies four times larger than necessary. Throughout the desalination process salt must be removed from one side of the filter to avoid the need to apply even larger energies."

"Using boron nitride nanotubes, and the same operating pressures as current desalination methods, we can achieve 100 percent salt rejection for concentrations twice that of seawater with water flowing four times faster, which means a much faster and more efficient desalination process."

This paper gave the impression that this solution actually worked, but from all accounts it was still only a theory. Currently though, a new Nanotech project co-funded by the European Commission and the University of Applied Sciences in Northwestern Switzerland, is enhancing filters already used in water treatment plants with nanoparticles that do specific jobs.

Source: www.articles.waterdesalinationplants.com/2012/05/26/nonotech-desalination/

In *Nature Nanotechnology*, an MIT team showed they could use nanotech to desalinate water in a new way...

...Instead of reverse osmosis, the MIT project uses ion channel polarisation: As water flows through a channel, membranes that are ion-selective separate not only salt ions from the water, but also viruses and microorganisms...

...Project head Sung Jae Kim says the prototype wafer produced for the water project is simply a proof of concept at this point. The team dreams of using the nanotech process to create portable water desalination devices that could run on solar power...

Source: www.blog.discovermagazine.com/80beats/2010/03/22/2-new-nanotech-super-powers-desalinating-sea-water-and-treating-cancer/

The results from both of these projects are encouraging. Let's hope they discover what Kryon has been talking about.

Question for Kryon

Do current desalination plants that use reverse osmosis have the potential to be remodeled or converted to desalination plants that use nanotechnology once the technology has been developed?

ANSWER: No. In this case, there is new paradigm and new facilities will have to be built. The old ones are simply nothing like the new ones. In the new ones you don't need heat, and you don't need storage holding tanks. It will be a "pass through" system of water being desalinated in real time.

Humans and Electro-magnetic Field Pollution

Electro-magnetic field pollution, also known as electro-magnetic radiation, refers to the harmful effects of energy waves with a low level of frequency. Visible light, microwaves, radio waves and x-rays are all examples of electro-magnetic waves, but with different wavelengths. Electro-magnetic pollution occurs every time electricity is generated. The list of things that generate electro-magnetic pollution is extensive but includes microwave ovens, TVs, fluorescent lights, electrical outlets, mobile phones, household appliances, electric meters, power lines, mobile communication towers and computers.

For several years there has been extensive studies done on the harmful effects of electro-magnetic field pollution on humans. Often an imbalance is created in the body and cell mutations may result and lead to the development of cancer. There are also a number of other health issues as a result of exposure to electro-magnetic field pollution such as depression, loss of energy, chronic fatigue, headaches, brain tumours and accelerated aging. Some individuals are more hypersensitive than others.

Thankfully, there are electro-magnetic protection devices available. I personally use these for my mobile phone, computer, home, and under my mattress and pillow when I sleep. I can definitely say that it has made a significant difference, and the quality of my sleep has improved remarkably. So why am I mentioning this? Partly because many of us are sensitive to electro-magnetic fields, but the other reason is something that you will find amazing. During the Kryon Kundalini Tour in 2012 something that no one ever suspected was revealed in one of the channels. Here is what is on the way:

So let us define DNA activation: DNA activation is helping all of the 3D parts of DNA to work with the quantum instructions in the ninety percent of DNA, which is not protein encoding [non gene producing]. It starts to create a DNA which is more efficient than you currently have. It helps to

re-write the instructions and information within the ninety percent. This will create a Human Being who is different and a biology that works better.

Let me give you some examples that you haven't thought of: Some of you are concerned about the things around you environmentally, as you should be. There is pollution in your air. But it's not just air, for there is also what you would call electro-magnetic pollution. This changes the atomic structure of everything around you, rearranging the polarity slightly. Electro-magnetic pollution is real, and it's there. Does it affect Human cellular structure? Yes. What are you going to do about it? Well, in a linear way you try to correct it. So you stop the polluting as best you can, and also get protection from the fields of energy which you are exposed to. So, are you stuck with this? Something may surprise you, which is coming.

If your DNA starts to work better at a biological level, and the children who are starting to be born now will have built-in protection to that which their parents have created as pollution in the environment. Call this spiritual evolution if you wish. Watch for an overall increase in size of human livers. Children will have bigger livers to process biological pollutants. They will also not be effected by the electro-magnetic field pollution near to the degree that you are, because their DNA has rearranged things with an intelligence of what has happened in the past.

Watch for the possibility for intuitive thought to be greater at birth. The children will be more in touch with their Akash [past life history]. Children will start learning to speak earlier, and will begin remembering things intuitively, much like the animals do in what you call instinct. Walking, language, and the wisdom of life will come much faster with an increased efficiency of DNA.

Kryon live channelling “The Letter A in the word Kundalini” given in the Elqui Valley, Chile – October 23, 2012

Question for Kryon

Will the animals also evolve to be less effected by electro-magnetic pollution?

ANSWER: Yes. This is already taking place. Animals are often the first ones to respond to new conditions on the planet, for they are used to the cycles of the Earth, both man-made and not. By the way, plants are the same, and will thrive within magnetic fields that once killed them. All they needed was time and GAIA's instructions to shift.

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