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Brainless Evolution is a dead abstract on legacy momentum statistically operating system phenomena beyond real-time control of any human alive actors active and acting today.

Executive Summary

on extracting renewable energy from LEGACY MOMENTUMS

V1.0

**Guidance on how to make the dead abstract natural system phenomena
work for sustainable quality of life and not for its own
Legacy Momentum**

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1 About Us

We have described us and refer to the Student Manual V1.0d, available on some copyright restricted media.

2 Executive Summary

This is a popular science explanation of the phenomenon of LEGACY MOMENTUM, and how we can exploit it for producing clean renewable energy.

The intention is to spark some new types of thinking on how we by careful strategic long-term planning can re-take large geographic areas on this planet that historical developments have left non-inhabitable for human beings and efficient self-sustainable renewable vegetation and animal life eco systems.

The guided walk in knowledge space starts by explaining the most powerful physical legacy momentum we humans can harvest for clean renewable energy. Standing on those developed abstractions it continues towards the details of how to engineer the physical and intellectual infrastructure necessary for efficient mass-deployment of these renewable energy production plants.

The energy is harvested by exploiting huge naturally cyclic legacy momentums that will remain constant for the coming 500 years.

3 The creation of the physical inertial legacy momentum of our planet

Around 4 500 000 000 years ago, the initial mass of our current planet earth was around 2/3 of the mass it has today.

An enormous planet in size of 1/3 of today's earth's mass hit the original mass and threw out a lump of material we now can see as the moon, circling the earth at an average distance of 30 earth diameters.

This hit lead to an enormous amount of energy being released as heat and rotational momentum in the current mass of our planet.

This rotational energy is still there, and we see it as the shifting of day to night.

4 Extraction of clean energy from the rotation of the earth

There are two basic ways to harvest energy from the earth's rotation.

Tidal forces and sun energy recycling while skimming a dividend in the cycling of huge volumes of heat exchange.

4.1 Tidal forces

Frequency: $1/(12*60*60)$ unitOfMeasurement: 1/s

Depending on the position of the moon and sun relatively to each other, their combined gravity influences the plastic mass on the earth. Most prominent are the tidal forces, with a cycle time of 12 hours, where the flood appears when the moon is exactly in zenith, or exactly on the opposite side of the planet from the surface location of the earth, where the tidal forces can be harvested.

The shift in external gravitational forces from the moon and sun moves water mass geometrically up and down relatively to the average bedrock. If the water is locked-up in basins when the gravitational force balance places it in its highest position and released through energy extracting water turbines when the gravitational force moved the not-

locked up environmental free-flowing volume to its lowest position, clean energy can be extracted. The clean renewable energy exploitation can be amplified with nature's already created geological formations that present a suitable east-west directional enclosed geometry, or manmade constructions, that may reuse present already available naturally existing geological formations.

This cyclic mechanism could also be used on macro scale for longitude directed gravitational force pumping of water masses from one geostationary location to another geostationary location.

Tidal force pumping of sea water along the longitude directed east-west axis using engineered basins with back-and-forth locks could transport huge masses of water to inland desert areas where sun heat that is around 1 KW per square meter could be used in sun-powered desalination plants to convert the water masses to fresh water. The byproduct will be salt, that can be sold as is or used in value adding chemical production pipelines or used as amplified wetted heat/cold mass volume storages for day sun heat, night cold, temperature energy recycling plants.

4.2 Sun energy recycling

Frequency: $1/(24*60*60)$ UnitOfMeasurement: 1/s

The cyclic shift between day and night makes a geostationary location on the planet swing between two states:

- a) Day: Input of sun power, heating up the geometrically local environment by sun energy
- b) Night: Lack of input of sun power, cooling the geometrically local environment by radiation of energy accumulated during the day.

Differences in energy between stores of energy leads to a natural transport of energy to reach a balance between the by whatever mechanisms connected stores.

An engineered transportation system may harvest energy in a format that is practically useful for human purposes, like mechanical rotation or electrical energy, when harvestable naturally occurring state changes are there anyway, either we use them or not.

Thus, accumulating sun energy during the day into a store, makes that energy available during the night to harvest through the environment's lower energy state during the night by extraction of a present real-time difference in energy levels.

Equally accumulating the cold of the environmental energy dissipation radiation during the night into a store, will make a real-time available energy difference available during the day when sun heat is available.

5 Harnessing energy in a for humans practically useful format, when a difference in energy levels is present

For tapping the above described clean energy, free for all who can use it, legacy momentum sources, some procedures emanating from the knowledge store of human

thinkers, practitioners and industrially developed production experience must be re-used to formulate a plan how to proceed.

One procedure that has showed off its benefit before, while being a human being who is cognitively locked up in the physical limitations of its own by biological hardware implemented brain, is:

- a) Brainstorming: Dump all things that come to mind after having read section 2-4 on a medium (paper, text-editor, or other computer supported think-tank).
- b) Screen the output and detail the registered "ideas" to a level that allows a quick-as-a-thought prioritization on which ideas that seems to be the lowest hanging fruit, and which ones that seem to be the most long-term powerful, if they show themselves to be possible to implement in practice.
- c) Make a priority list and investigate quick-as-a-thought which items that seem most attractive to yourself to pursue, given your own idiosyncratic life experience, education, personal needs and wants and current life situation.
- d) Make another priority list, which items "someone else" might be more emotionally engaged or intellectually or economically or resource possessively better equipped to become a successful beneficiary AND meaningful practically implementor and maintainer of.
- e) Structure the output from above and make a personal plan how you can act yourself to deliver most value first to yourself and the environment that must carry the burden of sustaining the conditions for meaningful and sustainable life for human beings for the next millennium.

6 Investigate potentially available resources

Checkout the resources that are accessible to yourself in the environment you live, who might have an interest in your output from 5.

7 Use your own judgement

Use your own judgement on how to proceed, given your own life experience.

One scientifically educated engineering approach on terra-engineering is to detail a conceptual design based on available facts of what the end-state of a terra-scale design could look like, and calculate from plain physics the possible output in terms of transported clean fresh water and electrical and mechanical energy.

Given those calculations, you can apply for funding for a more detailed investigation.

Just the knowledge of the computed physical facts may be very valuable for decision makers.

8 Investigate how you can help

Check if there is someone else who might be better environmentally equipped to fix global warming and some other problems and figure out how you constructively can

contribute on making them use their own legally rightful possessed resources more efficiently with regards to people who might want to have a humane quality of life in the next millennium.

9 References

- [Lindsay&Norman 77] P.H. Lindsay, D.A. Norman, "Human information processing", *Academic Press*, 1977.
- [ROJTEC 2014-17] ROJTEC, "The Meaning of Life in the Knowledge Age - Public Extract", 2017
- [ROJTEC 2014-17] ROJTEC, "The Meaning of Life in the Knowledge Age", 2017