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An integrated model of sustainability and emission control: The concept of society as a super organism that lives by consuming its own waste using alternative energy as currency

Paul A Comet

Comet Environmental Consulting, USA

The observation of the NASA “ecosphere” allows one to mentally model a carbon – neutral, sustainable society, that uses all its waste as a source of stored energy (where city & state replace the shrimps!) as well as sunlight, wind etc. The creation of an alternative energy – based currency “photonic dollar” is suggested that would gradually outcompete the petrodollar as domestic waste to energy & other alternative energy devices are attached to a communal electric grid (that also functions as a bank) that gradually replace fossil fuel energy. “Superorganism” theory is advocated as a way of distributing resources in an effective manner and as a way of understanding the complexities of how human society functions in a holistic manner. Societal ills then become diagnosable in terms of a malfunction of the entire social and economic system. The interposing of a separate economic “tier” specifically for alternative resources and energy is suggested as a non-revolutionary way of creating sustainable employment. These ideas are proposed because neither the theories of Adam Smith nor Karl Marx address the waste problem, nor clearly identify the “energy nature” of capital. If this new combination of models is successful in solving climate change problems, then economic philosophical differences between competing nation states might prove to be resolvable.

Biography

Dr. Paul A. Comet has degrees in in Geology, Micropaleontology from London University (QMC) & a PhD in Organic Geochemistry from the School of Chemistry, Bristol University, UK. His postdoctoral work at the University of Newcastle upon Tyne was concerned with hydrous pyrolysis of kerogen analysis using Ocean Drilling Project samples, specifically oriented to terpenoid stereochemical pressure/ temperature transformations. He has worked in the oil service industry as a petroleum geochemist at Core Labs. Singapore & Indonesia & as an inorganic geochemist at Halliburton recently, working on the mineralogy of unconventional reservoirs. He also worked at Texas A & M (GERG) as an associate research scientist mapping the oils of the Gulf of Mexico. He has more than 40 publications & has been working for more than 10 years on solutions for ameliorating climate change.

pcomet@prodigy.net

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