

The Pandora Paradox

Open System Physics and the Closed System Assumption

Pandora's Box - an explosive expansion of complex problems caused by a single action.

Paradox - that which seems self-contradictory but in reality expresses truth

For the last 18 years I have been researching sustainable solutions and technology breakthroughs.

My primary goal has been to answer 2 critical questions:

Why does our civilization seem systemically unsustainable?

Are there definitive solutions?

What I found is extraordinary. Despite the complexities of climate change, pollution, resource depletion, population expansion, poverty, starvation, disease, corruption, war etc. there is in fact a primary cause.

I have been able to analyze this discovery from many perspectives for years now. This has not only led to amazing breakthroughs in every field, it has provided a lens that predicts and explains every aspect of our civilization, from past to future, technology to psychology, science to religion. We can now clearly identify and resolve diverse crises that seem complex and unrelated.

The following is not theory. It is a progression of history, scientific proof and working technology. The discovery corrects a proof that has been misunderstood for the last 100 years. This can be proven to any scientist in minutes. I know this because proof is conclusive and I've had a 100% success rate in doing so.

Closed Systems

Fundamental laws of thermodynamics and energy conservation are based on the assumption of a Closed System. These laws have formed the foundation of our civilization's technologies, economics, cultures and beliefs for over 150 years.

The problem is, a closed system is impossible to create in this universe.

Why? By definition, a closed system requires that energy density must remain constant regardless of scale. However, all current scientific observations imply that energy density increases as size decreases with no theoretical limit. This is why nuclear energy is millions of times more powerful than chemical energy. Scale is an infinite construct. There is no such thing as "smallest" or "largest". Any point in space/time theoretically contains infinite energy potential.

Open Systems

An infinite construct is by definition an open system. Inverse energy density is also by definition an open system. Reality appears to be both. There is no way to isolate from that matrix. This is because you can never conclusively prove shielding from an infinite spectrum. It's infinite.

Applying laws of energy conservation to an open system is like saying that a cup of water must be added to an ocean before you can draw a cup of water from an ocean.

Even though the logic seems obvious, this tragic fact has been missed.

How did this happen?

Consequence

150 years ago, our understanding of reality was very different than it was 50 years later, but closed system physics was already entrenched by then. Ever since, the focus has been on how laws of thermodynamics define limits of our reality, rather than the validity of those laws. In other words, our current definition is still based on a 150 year old perspective of reality rather than later observations that should have clearly changed that perspective.

The consequence for our civilization has been catastrophic. Laws of thermodynamics have created a fuel based, debt, lack, depletion, expansion economy. These concepts are inherently and systemically unsustainable.

An alternate history

To understand the ramifications of this mistake, imagine where our civilization would be today if fuel had become obsolete 80 years ago. We would have had unlimited range travel and access to inexhaustible sources of energy anywhere on or off this planet for at least 60 years. By now we would have access to all the resources of this solar system and most likely have gone to the stars. Progress would have been far more rapid in every sector because thousands of discoveries would have emerged instead of being ignored, ridiculed or suppressed (predictable as closed system competitive psychology).

Would we still have roads, powerlines or even pollution? Would we be stripping our life support system of critical resources? If our economy was based on abundance, would we still have a debt, lack, depletion, expansion based economy? Would our perspectives, attitudes and behaviors be as short sighted, closed minded or destructive?

Open system physics (reality) is inherently sustainable. From an energy perspective alone, an abundant free energy source that obsoletes fuel creates an inherently sustainable abundance based economic system. This creates a completely different civilization and rapid collaborative advancement.

Educated assumptions

Since the adoption of the Closed System assumption over 150 years ago, scientific research has been hampered by a built in denial of any energy sources that do not seem to fit within the laws of thermodynamics, even though these laws are based on an assumption of a reality that cannot exist.

Closed system Laws create strong default educated beliefs, such as “you can’t get energy from nothing” and “perpetual motion is impossible”. Meanwhile, everything we have ever observed is in perpetual motion at the atomic level and so-called “nothing” is theoretically composed of infinite energy potential.

Something is clearly wrong with this logic.

This cognitive dissonance has somehow survived to build the unsustainable civilization we know today.

Logically, if we don't correct this mistake, our inability to sustain will follow a predictable course. This is why open system physics and technologies are so critical for our future survival.

As Einstein said:

"A new type of thinking is essential if mankind is to survive"

Proof of the closed system error is not theoretical. We have working open system technologies that tap unlimited sources of pollution free quantum energy. They are not only ready to implement, they should have emerged over 100 years ago. The irony is that they cannot exist in a reality that doesn't exist.

Michael Waters
CEO, AESOP Energy