

"Work versus Energy" posted to EEV Blog Forum

{abundant work; limited energy}



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Work versus Energy.

« **on: 7 Aug, 2026,** at 01:44:14 am »

There is this persistent rumor that horsepower and kilowatt-hours are rigidly united in an equivalency which cannot vary. Although this is true whenever voltage and current are never more than one-quarter phase displaced from each other, it is not true whenever voltage and current are phase displaced by one-half cycle of oscillation in which this solid relationship between work and energy becomes flexible and caps and coils can no longer absorb nor discharge the energy of this type of waveform nor initiate any time-delay for the absorptions and discharges which no longer occur under this circumstance since caps and coils become convinced that they are saturated before this type of waveform arrives to one of their terminals. In other words, this half cycle of displacement prevents absorption and/or discharge from ever taking place as if to suggest that the normal reactive function of caps and coils becomes redefined under the influence of this type of waveform to include some other type of behavior other than absorption and discharge.

When work and energy become disassociated with each other as a fixed relationship, any ratio can exist between them from one extreme magnitude to the other.

Hence, free energy does not exist. But an abundance of work is

possible, although not likely since it is not a default which the universe could tolerate without being put at risk.

In other words, energy can be recycled more readily whenever its voltage and current phases are displaced by one-half cycle of oscillation. And this displacement must occur right away whenever a device is turned ON or else it will never occur. A device cannot gradually transition itself into this modality which is precisely how normal phase displacements operate between zero and 90 degrees of displacement.

But since a half-cycle phase displacement between voltage and current is so extreme (it doesn't get any worse), it's not surprising that a gradual transition into this type of waveform from any angle of displacement less than half a cycle is not possible.

Also posted to Reddit:

I'm sorry for not disclosing my motives. I am referring to the non-variable conversion rate of horsepower-hours to kilowatt-hours — the latter referring to energy while the former refers to rate of power transfer. The common notion that **1.34102 horsepower-hours is equivalent to one kilowatt-hour** is what I am suggesting may not be so stable a relationship under certain conditions of extreme phase displacement.