

Energy conversion

We have a thinking model. There is a closed space, call it our home. Without any changes of energy with. The home has the same temperature in every place of that space. In such space there are powerplants, electrical systems, distributions systems, electrical cars, lights, motors, heating and drilling machines and so on. The temperature everywhere is the same 20°C . Every car, motor, turbine, etc. is still. There is also a mixture of hydrogen and oxygen. Such mixture is hidden behind the steamboiler. The temperature of mixture is the same 20°C . But suddenly the impuls to com. Where the impulse came from? (see later). The impuls is the source of the chain reaction among molecules of hydrogen and oxygen. The product of the chain reaction is a water as a steam. The steam flows to turbines. We obtain a mechanical work which is transformed to the electrical current by using generators. The electric current is a pure form of energy. Such form of energy is distributed by electrical sites. Suddenly there is the electrical power.



Fig.1 – the picture, a model of closed space with infrastructure, you can see moving molecules of the air

Cars are able to ride, drilling machines could drill a holes, electrical bulbs could lightening and so on. Remember inertia law! If the car is put into the motion But there are resistant forces from the air, a friction and so on. Every car is put to stop after some time. If we need to move the car continuously then we need the force against the resistant forces. And it costs us a good deal of energy. And such energy is dissipated by the resistant forces to the air. That means the increasing of temperature around the light bulbs, around the metals around the drilling machines, around cars and so on. In the end all the manufactured energy increased the temperature inside our home. What had happen after we had consumed all the hidden energy of hydrogen

and oxygen? There will be again a still stand. Finally, all the energy delivered to our homes will lead to an increase in temperature. That's all.

The same result we obtain if we only burned the mixture without using conversion processes. And the result is the same – the temperature increase – nothing else.

If we only spread the heat from chemical chain reaction inside of our home then we see no difference in devices, cars, bulbs, etc.. But if we used conversion processes then we could see a wear of devices. The difference is the wear of devices. We could see the changes on the surface of devices. E.g. pneumatics of our cars, the wear of drills etc. We could see also new holes! Shortly, we could see a good deal of new products and changed circumstances. And this is the reason why we use conversion processes.

The service wearing is valid for cars, machines, for all products through the time if they were used. But there are ready new products to replace them through the time! Let's ask ourselves - are there new inventions and ideas through the time? Or are there only replacements of current products without any inventions? Or worse to say, are there only the service wearing without replacements?

Our cars only transported people or material from point A to point B. Or light bulbs only shined to our books. Or we heated our houses. The question is what new had happen through the time of conversion of the hidden energy. How many architecture houses were builded. How much artwork has been done. How many songs has been composed. How many new things has been made for our using or pleasure. That's a big difference. Yes, the entropy has been reduced by our creative work. our creative work is impossible without increasing entropy in the surroundings. But conversion processes must not be so fast. Our idea if there's a lot of energy then we have to have a lot of inventions is wrong. Inventions take time and of creative endeavour of suitable men. And every creative or innovation process requires an accurate dose of energy. Not to have a lot or small. Every process is different.

Anyway, after some time the infrastructure became low. Service wearing etc. We must repair it or to replace it – to support the infrastructure to work on. If we don't then the infrastructure will go down. Or we could invent a better infrastructure. We have approximately three choices. 1) to go down – to prehistoric society. 2) Only to support a present time. 3) to go further – to have better and better infrastructure.

For the third choice we need suitable men – engineers, mathematicians, physicists, scientists, chemists and, of course, musicians, artists and other parts of society. And these people want a just right portion of energy.

O.K. We had a process of energy transformation to useful work. We are interested how many new useful ideas and thoughts we did. We could make three kinds of processes

the progress (P) means new ideas made to work, new beautiful art and so on

the stagnation (S) means only to maintenance and replace the current state

the degradation (D) means the current state went down

The kind of the process P as the progress – it does mean real progress or evolution as new ideas made to work through inventions, new artwork from imagination, etc. There are a lot of opportunities how to change our surroundings. The other question is how the new surroundings supply our inner feelings. Or how they supply the environment. But only such progress makes a joyce or satisfaction from our work.

The kind of the process S as the stagnation – it does mean only to maintenance the current state in industry, art, environment, etc. No new ideas, only to keep the maintenance by the replacement of worn with use parts. As a good example is how to keep cars in a traffic. The car is completed from parts. After the service wear of parts to replace them. The car will be always in working. The engine always exists through the time by the replacement of the engine parts. It is valid for every product of a human effort. That's all. The society has to same level for the time. it's tiring after a while. And tiredness ...

The kind of the process D as the degradation – it does mean a rapid collapse of the society. The people are unable to repair cars or other products. Or to tune a piano in the end. The gardens are overgrown. It is a completed decay of the human society. Such society is close to death.

As we know from experience, new ideas, potential changes face stiff resistance in the world. Many problems in their introduction, complications with new production. But then a better life with the changes made. And again, convenience and habit, and again, other problems with the introduction of other new ideas. It should be noted that resistance to new ideas helps in their selection and reinforcement. Were it not for resistance, we are overwhelmed by the possibility of no practical benefit.

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