

Source: <https://energytransition.org/2013/04/watts-per-m2>

## Response by: David Svarrer

*January 22, 2017*

Roderick, let us assume that Craig is simply just wrong. Let us assume too, that the economics are really poor.

I would still go for the renewables, that is me, David Svarrer, as I do not understand the idea that we can combust any kind of fossil fuel or any kind of radioactive fuel.

The fossil fuels has taken some millions of years to become fossil fuel. Yet we think that if we combust these in some few hundreds of years, then that is sustainable?

The radioactive fuels are some hundreds of factors more efficient per kilogram of fuel, however, is it sustainable to combust a kilogram of uranium, only to have to store the residual plutonium for hundreds of thousands of years, accumulating the number of manhours and machine hours necessary to maintain the storages for each kilo we continue to consume?

The consequence of this is, that at SOME point the renewables will, no matter what, be cheaper than any combustible kind of fuel, only with the difference, that at that time, we have reached a very unfortunate equilibrium where it is now more costly to use either oil, coal or uranium than what we get out of it.

Furthermore – for the uranium part – the rise in price – is caused by the maintenance cost – so – we have at that point gotten ourselves a nice problem – namely to use renewables to maintain the enormous stockpiles of plutonium, in a way such that they do not cause harm to mankind.

Add to this, that these stocks have to be inspected, re-loaded, moved, with few decades in between, due to that the tanks these are stored in, smoulder due to the radiation. These effects are documented in hundreds of reports.

So, Let me be wrong with Craig, and let me do renewable energies even if these are 10 times or more expensive. Because: YOU cannot take plutonium, which is a whole new material, and combust it at a high temperature to break it down. But any and all materials being used to manufacture solar cells, wind mills, water power stations, all of these materials – are recyclable and once the wind mill is dismantled, it can be recycled.

And beware and behold. I have for instance installed a water heater in my house, built by myself as an instant heater, with available normal plumbing materials, a few wrenches aso.

– and now my family takes hot shower every day – from the sun. Total cost: around 120 USD. Yes – One Hundred and Twenty.

Then add my labour – maybe 40 hours.

We have now showered for 3 months like this.

We have solar cells and a small solar battery of 70 Ah (buying another one soon), for light.

We have cut our electrical bill from the grid by 80%.

The solar cells and so on has cost some USD 300 or so in total in material, plus my labour – around 30 hours in total.

What I have done is not very advanced, but I have made it extremely usable, very simplistic, and the outcome is very efficient.