

Nuclear Waste



Almost one century ago nuclear power was so popular and advertised as the solution to all of our energy issues. A clean efficient power plant that would use very little uranium to produce a lot of electricity it's been said that one gram of uranium can equal a 10 tons of coal this is just to put how nuclear energy was the hope to fix all of our energy woes. As countries worldwide bought into the nuclear dream. Today there are nearly 450 nuclear reactors around the world . and they produce a lot of radioactive waste that we don't know how to deal with them properly

But what exactly nuclear waste is ?

Nuclear waste is everything used inside a nuclear reactor that includes the fuel and fuel rods and the equipment used inside the reactor, also the uniforms workers use it get contaminated at this point it will be considered as a nuclear waste .

2- how is it produced and how dangerous it is

The most toxic thing in the waste is the fuel it gets very very radioactive but this waste is only 5% of all the nuclear waste. the other 95% is the equipment used in the reactor . And this radioactive radiation is very dangerous

3- what are we doing with our waste now

In the past we used to throw our waste into the sea, it turned out that this wasn't a brilliant idea . so what are we doing with it now is as what officials call it geological disposal which means that we are basically barring it in places where there is no danger of earthquake or any other natural disaster . but the problem with this solution is that if the waste is not being secured many people would try to steal the waste and use it in terrorist activities . Another problem is that nuclear waste will last for thousands and thousands of years that means if we put it in barrels the barrels will discompse before the waste is safely decayed which means that the waste would be free and it might get into groundwater and contaminated the area . Also we don't know if the next generations will understand that the nuclear waste is very dangerous, we don't know if the radioactive simple would mean anything in the far future. Before there is simple like the barite simple which presented danger and pairs poison and death , now we see it as a Halloween costume and childish.

So what should we do to

Some people would suggest throwing our garbage at the sun which is a good idea if we can actually do it . but the issue is that it's extremely dangerous if it explodes in its way up that would be a huge disaster . Another idea is just to stop using nuclear power as we do today you see there are 2 different ways of nuclear energy there is fission energy where two atoms split and they reales a huge amount of energy and this is the kind we use. The other one is called fusion energy. In the fusion energy the process is opist instead of splitting two atoms we combing two and will release a humongous amount of energy. In fact this is how our sun works it. The problem of this method is that we don't have the technology to achieve the extreme high temperatures that the sun has .

Summary

Nuclear waste is a serious problem that we face today because radioactive material are very toxic and can kill any living being in a matter of seconds. Due to the fact that nuclear waste can be radioactive for thousands and thousands of years we still don't permanent solution.