

NUCLEAR ENERGY

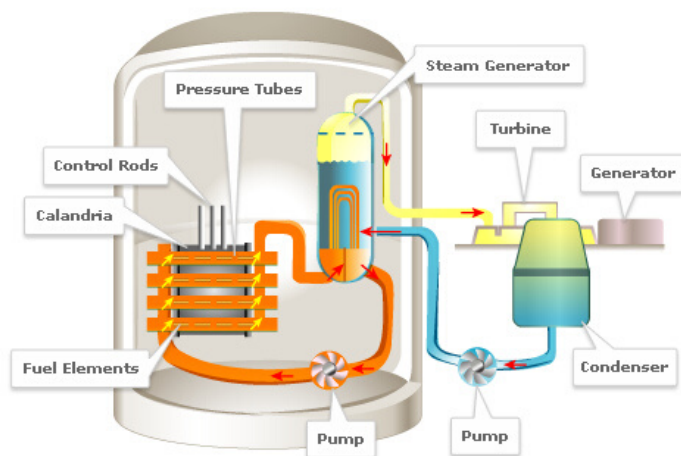
THE BETTER ENERGY

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Nuclear Energy - The Better Energy is an initiative to create awareness about the applications of peaceful Nuclear Energy. We proudly present our June newsletter.

NUCLEAR 101

Nuclear 101 is a section where we will bring to you some of the most basic concepts of Nuclear Physics explained in a non-specialist way



Pressurized Heavy Water Reactor (PHWR)

PHWRs are generally considered the safest operating nuclear power plants. The reason is the choice of fuel. While PWRs and BWRs operate efficiently only with enriched uranium, PHWRs can safely operate using natural uranium as fuel. The reason being the use of pressurized heavy water as coolant and moderator. Light (or normal) water has a property to absorb neutrons while it is greatly reduced for use with heavy water. This enables greater availability of neutrons to interact with the fuel and attain a steady state.

Enrichment of uranium requires a very expensive facility and involves extensive safety requirements so many countries have shifted to the more cost-effective PHWRs. One such country is India that has 17 operational pressurized heavy water reactor plants at present.

Source: https://en.m.wikipedia.org/wiki/List_of_nuclear_reactors

Visit our website (thebetterenergy.net) for latest updates about Nuclear Energy

Highlighted Articles

Why wait for a Pandemic?



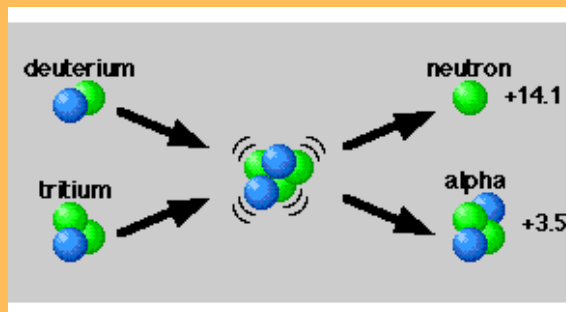
Many countries are witnessing bluer, clearer skies than ever. Rivers are clean, air is fresh, carbon dioxide emissions have gone down and at the root of all of this, is a global pandemic. With the novel coronavirus forcing everyone to stay indoors, drive less and use resources more responsibly, the planet has received a much needed break from pollution.

It is, however, highly unfortunate that we had to wait for a global pandemic to be able to experience nature in its cleansed form. There definitely is a measurable effect but at the same time, it must be kept in mind that this isn't permanent. As we recover from the pandemic, and business goes back to normal, we will be back to ground zero and the planet will again be shrouded in dense pollution.

[READ FULL ARTICLE HERE: \[HTTPS://THEBETTERENERGY.NET/WHY-WAIT-FOR-A-PANDEMIC\]\(https://thebetterenergy.net/why-wait-for-a-pandemic\)](https://thebetterenergy.net/why-wait-for-a-pandemic)

Fusion: The sibling to Fission

Energy crisis has been a century problem giving rise to the utilization of various renewable and alternative energy sources such as wind energy, solar energy, nuclear energy, etc. Here, we offer a sneak peek into the technology behind Nuclear Fusion -- the sibling to the more widely known nuclear fission.



Diving into the basic requirements for the successful operation of a nuclear fusion reactor, this article is everything you need to know about the future of nuclear energy production.

[READ FULL ARTICLE HERE: \[HTTPS://THEBETTERENERGY.NET/FUSION-INTRO\]\(https://thebetterenergy.net/fusion-intro\)](https://thebetterenergy.net/fusion-intro)

FUN FACT

Eating a bag of potato chips a day gives you more than 4 mrem/yr. (Yes, potato chips are the most radioactive food with about 13,000 pCi of beta radiation per 12-oz bag) whereas, that received from the Nuclear Industry is less than 1mrem/yr.