

# NUCLEAR ENERGY

## THE BETTER ENERGY

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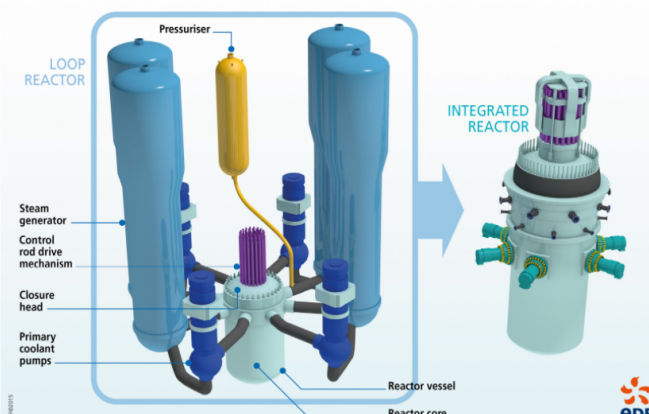
*Nuclear Energy - The Better Energy is an initiative to create awareness about the applications of peaceful Nuclear Energy. We proudly present our February newsletter.*

### **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

Small Modular Reactor is a type of fission reactor that is smaller than the conventional nuclear power plants in size as well as capacity (about 350 MWe). Their compactness enables them to be manufactured in factory conditions and transported to the site for installation, thus reducing the financial burden associated with the on-site construction. In addition to the ease of construction, these reactor designs are especially beneficial for providing electricity to remote locations or for powering a small industrial grid.

SMR: FROM LOOP REACTOR TO INTEGRATED REACTOR



A typical SMR design involves compacting the current generation large scale nuclear reactor technology, with the option of including newer technologies to obtain an integrated reactor design. The compactness associated with this integrated architecture favors the use of passive safety systems that do not require additional components. This gives the SMRs an edge over the large nuclear reactors by facilitating large-scale factory manufacturing, improving the quality of the assembly and reducing the amount of on-site work. Additionally, their smaller size allows for a reduced, faster and more efficient testing and maintenance facility

*.Source: <https://thebetterenergy.net/smr>*

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## Highlighted Articles

### *Revisiting Nuclear Energy - The Better Energy*



We all remember the tragic history of atomic bomb detonation at Hiroshima and Nagasaki in Japan on August 6 and 9, 1945. The testing of the atomic bombs prior to the attack was done at New Mexico, USA just 2 weeks before the attack on July 16. Soon, Soviet Union, the UK, France and China started developing nuclear weapons. The world seemed to be on the verge of a nuclear war.

Written by Ashabari Majumdar, this article takes you through a timeline of what led to the birth of the United States Stockpile Stewardship Program.

[READ FULL ARTICLE HERE: \[HTTPS://THEBETTERENERGY.NET/STOCKPILE-STEWARDSHIP\]\(https://thebetterenergy.net/stockpile-stewardship\)](https://thebetterenergy.net/stockpile-stewardship)

### *Wow, what a display!*

Have you ever wondered about the technology responsible for turning the sporting moment of Cristiano Ronaldo kicking that trick into a surrealistic in-ground emotion in your cozy comfy home? To your surprise it is the fourth state of matter, followed by solid, liquid and gas, which is serving you an in-theater display quality. Yes, you got it right, it's the popular flat plasma display or your favorite plasma tv.

Written by Nilormi Das, this article will tell you all you need to know about your plasma television



[READ FULL ARTICLE HERE: \[HTTPS://THEBETTERENERGY.NET/PDP\]\(https://thebetterenergy.net/pdp\)](https://thebetterenergy.net/pdp)

## DID YOU KNOW?

Nuclear technology can be used to solve the drinking water shortage crisis. Some of the oldest nuclear desalination plants were founded in Kazakhstan, India and Japan.

Currently the supercarriers of the U.S. military are powered by nuclear reactors onboard which includes desalination plants. A typical supercarrier can generate ~1,500,00 liters of freshwater from seawater each day.

Source: <https://thebetterenergy.net/potable-water>

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