

# 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 January 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

There are three advantages to the use of nuclear energy that outweigh those of other clean energy sources. First, it produces almost zero emission. While one may argue that natural gas is the most realistic energy source to replace coal due to its growing abundance and lower emission, it still produces around 50% of carbon dioxide of burned coal. In other words, natural gas is cleaner than coal but not completely clean like nuclear energy. Second, nuclear-powered production stays consistent throughout the year, whereas solar- and wind-generated electricity relies on the weather and massive battery storage. Besides, solar farms and wind turbines would take a lot of space if they were to become the primary source of electricity, unlike nuclear power plants. Lastly, nuclear power generates electricity much more efficiently than other sources. According to the Department of Energy, we would need to build two coal plants or four renewable plants to create the equivalent of electricity as one single nuclear power plant.



*America*  
& Nuclear Power

Nuclear energy is the better energy for America. It performs at high efficiency and consistency and most importantly, at very little damage to the environment. We must convince the public of these advantages and disillusion them of their misconceptions about this green source of energy. Ultimately, we all aspire for a future that relies less and less on fossil fuels.

Source:

[https://thebetterenergy.net/better\\_energy\\_for\\_america](https://thebetterenergy.net/better_energy_for_america)

**Visit our website ([thebetterenergy.net](https://thebetterenergy.net)) for latest updates about Nuclear Energy**

# Highlighted Articles

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



2020 has been a promising year for us at nUeBe. With over 1000 subscribers worldwide, we think now is the perfect time to revisit our objectives and connect with our loyal readers.

Written by our founder, Nirupama Sensharma, this article describes who we are and what we are doing to address the importance of adopting nuclear energy by the society. Through this article, we are hoping to connect with our subscribers and pledge to keep working towards promoting awareness about the sustainability of nuclear energy.

**READ FULL ARTICLE HERE: [HTTPS://THEBETTERENERGY.NET/REVISITING\\_NUEBE](https://thebetterenergy.net/revisiting_nuebe)**

## ***A Conversation on the Global Water Crisis and Nuclear Technology***

Written by Ashabari Majumdar, this article deals with one of the major crises currently being faced by the world - the Global water crises!

Currently 1/5th of the world population does not have access to potable water and 2/3rd of the population face fresh water shortage at least for one month per year. Although geographical water scarcity is a part of the problem, however, United Nations Development Program says that the lack of investment, infrastructure and poor management of water resources is the main reason behind the potable water crisis. Read to find out about how Nuclear Technology can help us resolve the problem of global water shortage!



**READ FULL ARTICLE HERE: [HTTPS://THEBETTERENERGY.NET/POTABLE-WATER](https://thebetterenergy.net/potable-water)**

## **DID YOU KNOW?**

2021 will see the beginning of operations for Vogtle 3 and will be followed by Vogtle 4 in 2022. These state-of-the-art reactors will become the first new nuclear reactors built in the U.S. in more than 30 years and power more than half a million homes and businesses in Georgia. Source: NEI

***Visit our website ([thebetterenergy.net](https://thebetterenergy.net)) for latest updates about Nuclear Energy***

With this newsletter, nUeBe is starting a new feature --  
*Contributed guest articles.*

Every month we will present to you an article contributed by one of our prized subscribers. To submit an article for review, please email ***[thebetterenergy@gmail.com](mailto:thebetterenergy@gmail.com)***



## Sunflower – The Radiation Absorber

Author: Ridhi V. Raaj (B.Tech Nuclear Science student from Mody University)

After the Hiroshima, Fukushima and Chernobyl nuclear disasters, some of the affected fields were covered with sunflowers due to their inherent property of absorbing toxic metals from the soil. Sunflowers are hyperaccumulator plants that have the ability to take up high concentration of toxic material in their tissues. Like all plants, they can pull nutrients, water and minerals out of ground. Elements like Zinc, Copper, Strontium, Cesium and other radioactive elements can hence be stored in their stems and leaves.

[READ FULL ARTICLE HERE: HTTPS://THEBETTERENERGY.NET/SUNFLOWER](https://thebetterenergy.net/sunflower)



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