

# NUCLEAR ENERGY

## THE BETTER ENERGY

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*Nuclear Energy - The Better Energy is an initiative to create awareness about the benefits of Nuclear Energy and to help the society get rid of the fears and misconceptions related to this environment friendly source of energy. We proudly present to you our first newsletter of this year.*

### **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

Just by sitting next to a person exposes you to radioactivity arising from the internal radiation emitted from that person's body. All living beings on Earth have Potassium-40, Carbon-14 and Lead-210 in them from the time of their birth. These may arise due to the consumption of food, drinking water or simply inhaling air containing radioactive elements.

These elements are absorbed by the tissues and bones in our bodies and keep getting replenished over time by simple processes like ingestion and inhalation. The radiation received via this process is called Internal radiation.

The exposure received by an average man in the United States by Internal radiation is an effective dose of about 0.03 rem each year.



### **FUN FACT**

*The United States generates about 2,000 metric tons of used fuel (also called Nuclear waste) each year. Since the 1950s, the U.S. has produced roughly 83,000 metric tons of used fuel. This quantity is small enough to fit on a single football field at a depth of less than 10 yards. On the contrary, the 500 coal-fired power plants in the U.S. produce an average 240,000 tons of toxic waste each year.*



• ARTICLE OF THE MONTH •

## ***Donald C. Cook Nuclear Plant***

Few people living in and around South Bend, Indiana know that there is a nuclear power plant less than 50 miles from where they live. The Donald C. Cook Nuclear Power Plant is located north of the city of Bridgman, along the shoreline of Lake Michigan. The Cook power plants began operation in the mid 1970s and have been supplying clean, pollution-free electricity to millions of households since then.

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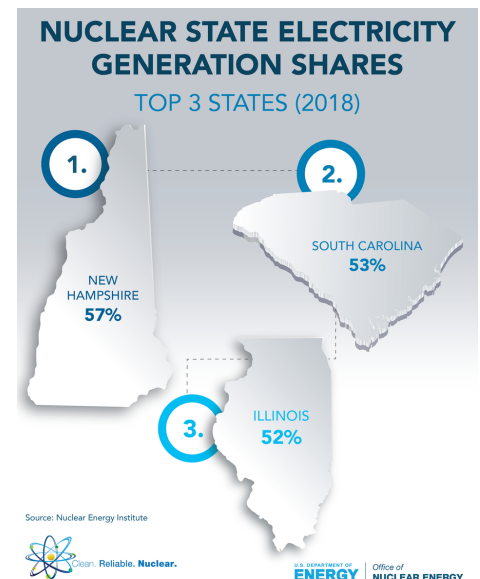
## **DID YOU KNOW?**

The nation's top three states to get more than half of their total electricity generation from clean, safe and reliable Nuclear Power are:

- 1) New Hampshire - 57%
- 2) South Carolina - 53%
- 3) Illinois - 52%

(Statistics from 2018)

Source - Nuclear Energy Institute



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