NUCLEAR

FUEL FACTS

How does Nuclear Energy Work?

Nuclear power uses sustained nuclear fission to generate electricity,







Advanced Nuclear: Small Modular Recators

Small Modular Reactors (SMRs), a form of advanced nuclear technology is designed to be smaller, safer, and more flexible than traditional nuclear plants. Their compact size allows them to be built in factories and transported to sites, making them ideal for repurposing coal sites in Indiana. SMRs provide reliable, carbon-free electricity and can be scaled to meet local energy needs, offering cost-effective solutions for communities and utilities.



SMRs powering a data center.

Third Way; Nuclear Reimagined - https://www.thirdway.org/blog/nuclear-reimagined

DID YOU KNOW

- Nuclear power plants produce zero carbon emmissions making them one of the cleanest sources of baseload energy.
- Advanced nuclear energy (SMRs) can be bult in factories and shipped to sittes, offering more flexible and scalable energy.
- SMRs include passive safety systems, meaning that they shut down automatically without human intervention if an issue arises.

Economic Growth Opportunities

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Nuclear in Indiana

Indiana Michigan Power (I&M) is one of Indiana's largest electric utilities. It operates the D.C. Cook Generating Station in Bridgman, Michigan near the Indiana border powering over 1.5 million homes, generating up to 2.2 GW of electricity.

Benefits to Hoosiers:









Constant & consistent power supporting a stable grid

Less affected by price swings

Reduces overall electricity generation costs

Clean air for Indiana Communities

Several locations across Indiana have been marked as suitable for advanced nuclear energy projects, particulary the deployment of small modular reactors (SMRs). These sites, many being retired coal plants were evaluated through studies in partnership with Purdue University and funded by the Indiana OED. They offer existing infrastucture, grid access, and readiness making them ideal sites for these nuclear facilities. This opportunity supports a cleaner energy mix while revitalizing local economies.

State policies and funding from OED and the U.S. **Department of Energy are driving** the nuclear innovation agenda. Advanced nuclear, **SMRs offer** scalable, safe, & cost effective power solutions.



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