The Ohio Nuclear Free Network

We welcome members wherever you live.
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https://onfn.blogspot.com/
Make the connection in every communication: Nuclear Weapons and Nuclear Power

- “Without civil nuclear power, there is no military nuclear power, and without military nuclear power, there is no civil nuclear power.” ~ French President Emmanuel Macron

- Funding, technology, education, research, all overlap.

- The “peaceful” atom, gives legitimacy to the industry.
  Safety was greatly compromised to make nuclear power “affordable”.
  Safety continues to be compromised.
  ONFN’s long list of NRC maintenance and safety exemptions given to FirstEnergy.
Countering the big lie: Nuclear Power produces no carbon and ZERO EMISSIONS!

   - Uranium mining, milling and refining
   - ONFN flier: Uranium: Enrichment, Nuclear Fuel Fabrication, and More

2) Reactors are a huge operation; they cannot run without outside electricity to keep them cool. Only the chain reaction produces no carbon. What about nuclear waste?

3) The “Back End” of nuclear power: Nuclear waste poses an existential threat greater than carbon. How much energy will it take to isolate radwaste for millions of years?
Federal support for nuclear

**Military Nuclear**: Taxpayers pay for all, including $1.2 trillion to upgrade nuclear weapons over the next 30 years, started by Obama and continued through Trump and Biden.

**Civilian Nuclear**: UCS 2011 Report: [Nuclear Power, Still Not Viable Without Subsidies](#).

Subsidized though all aspects of the industry, sometimes greater than the value of the electricity produced. **Subsidies since that time need to be tracked.**

- Subsidies to cost of labor and land; uranium mining, milling and enrichment; cooling water; regulatory oversight; security; decommissioning
- Insurance limiting liability under the Price Anderson Act
- Construction Work in Progress forces ratepayers to pay before receiving electricity.
- Market competition favoritism
Wall Street won’t fund it, so the government will. This is a sampling of NEW nuclear funding!

- Education: Young people lack interest in nuclear technology.
  
  **DOE Awards $5 Million to Future Nuclear Scientists and Engineers** (2022)
  
  (one recipient is Ohio State University)

- Keeping old reactors online:
  
  **DOE Extends deadline for $6 billion Civil Nuclear Credit in Infrastructure Bill** (2022)

- Subsidizing New reactors (Bill Gates needs money):
  
  **DOE awards TerraPower (WA) and X-energy (MD) $80 million each** (2020)

- Waste/Depleted Uranium
  
  **DOE Awards $36 Million to Reduce Waste from Advanced Nuclear Reactors** (2022)
1) **New Uranium Enrichment** at the Portsmouth Nuclear Site

In 2019 DOE gave a $115 million no-bid contract to Centrus to make High Assay “Low” Enriched Uranium (HALEU) (weapons usable).

ONFN Flier: **Ohio, Centrus and the Nuclear Bomb**

**ONFN and Beyond Nuclear seek review from NRC on Centrus licensing**. NRC and Centrus must do the required Programmatic Environmental Impact Statement.

*Arrow on map is Pike County*
Ohio’s NEW nuclear subsidies

2) **Depleted Uranium** at the Portsmouth Nuclear Site
   Announced by DOE in January 2020, a new process will turn waste DU into munitions. Subsidized by skipping the REQUIRED Programmatic Environmental Impact Statement.
   ONFN Flier: *Portsmouth Facility to Convert Depleted Uranium for Warfare*

   DU from Portsmouth is “dirty” – contaminated with plutonium and other highly radioactive elements – greatly worsening environmental and health impacts. (see slide 10)

   **Birth defects in Iraq have greatly increased.**

   *Assessing Depleted Uranium in Iraq.*
   *Photo: U.N. Environment Programme*
3) **New Reactor** at the Portsmouth Nuclear Site

In 2020 DOE awarded a $5 million grant to support a *potential* advanced reactor project.

Currently Exploring a High Temperature Gas-Cooled Reactor (HTGR) (pebble bed).

*Ariel Photo of the Portsmouth Nuclear Site*
OHIO’S NEW nuclear subsidies

4) **Hydrogen Production** at Davis-Besse

The site of a $10 million (80% taxpayer funded) project to research hydrogen production at a commercial nuclear reactor.

Hydrogen creates a use for nuclear (and gas).
Hydrogen is only efficient when small and local.
**ONFN Flier:** **Hydrogen at Davis-Besse**

*Davis-Besse is on Lake Erie east of Toledo.*
“Cleanup” of Gaseous Diffusion Uranium Enrichment at Portsmouth

The Portsmouth Gaseous Diffusion Plant enriched uranium for bombs and power. High Level Radioactive Waste was illegally run through all the process buildings.

- **ON SITE DISPOSAL FACILITY** has cracked and permeable rock between it and the Teays River Aquifer. Critters can chew holes in its rubberized liner.
- **MATERIALS WITH TRANSURANICS** are being buried onsite.
- **OPEN AIR DEMOLITION**; buildings are uncovered.
- **CONTAMINATED WATER** and **GROUNDWATER** are moving offsite.
- **LANDFILLS OUTSIDE THE PERIMETER ROAD** not dug up and reburied.
- **PIKETON-SIERRA JOINT STATEMENT** on problems with disposal.

*PHOTO: Improper covering of demolition allows radioactivity to move offsite.*

*Fluor-BWXT Portsmouth is getting bonus money for finishing the job early.*
Offsite Radioactive Contamination at the Portsmouth Nuclear Site

A DOE 2017 Annual Site Environmental Report – released in 2019 - identified neptunium in an air monitor outside the Zahn’s Corner Middle School, 4 miles from PORTS.

Shortly thereafter the Scioto Valley School Board closed the school.

Dr. Michael Ketterer’s 2021 analysis identified offsite radioactive elements from PORTS.

Two class action lawsuits have been filed by locals claiming radioactivity on their properties and/or illnesses.

Photo: The Zahn’s Corner Middle School
Thanks to the Ohio Green Party for decades of antinuclear organizing.

Thanks to Energy Chair Daryl Davis – Join her committee!
Thanks also to Anita Rios for her decades of Green activism.

Ohio is the “heart” of the nuclear industry’s expansion plans.

Contact Pat Marida for information on nuclear issues or to join the Ohio Nuclear Free Network. patmarida@outlook.com 614-286-4851