

Oregon Department of **ENERGY**

Nuclear Power Presentation

Senate Energy and
Environment Committee

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NUCLEAR POWER HISTORY IN OREGON

- 1980 Ballot Measure 7 requiring permanent disposal facility for spent nuclear fuel before allowing new nuclear power plants, and statewide vote on future facility. Passed 53 to 47 percent
- PGE Trojan Nuclear Power Plant (Columbia County)
 - Operated from 1976 to 1992
 - Decommissioned and demolished in 1990s and 2000s
 - Reactor and other components shipped offsite for disposal
 - Spent nuclear fuel still safely sitting onsite today
- No national disposal location for spent nuclear fuel; all 90 or so nuclear power plants in USA store spent fuel onsite
- Hanford ≠ commercial nuclear power plant



NUCLEAR POWER TODAY

- About 3 percent of the electricity Oregonians use comes from nuclear power
- One operating nuclear power plant in the region: Energy NW's Columbia Generating Station, near Richland, WA
 - ODOE leads Oregon's nuclear safety program, specifically focused on the Columbia Generating Station
 - Coordination with state, local, and federal partners
 - Safety is a result of physical design and administrative procedures, including well-trained people, up-to-date plans, and regular exercises
- Nationally, about 20 percent of all electricity produced is from nuclear power
- Investment and interest in nuclear power nationwide: federal, states, private sector



ODOE sets up an Agency Operations Center to respond to nuclear emergency exercises – as it would in the event of a real emergency.

NUCLEAR POWER TOMORROW

- Investment and technology advances in ‘new nuclear,’ including small modular reactors (SMRs)
 - NuScale from OSU, many other companies advancing new technologies
- Nuclear power: heavily regulated industry, today and tomorrow, this will continue
- Costs of facilities and future power, as well as timelines, are important questions and unknowns
- Tech companies investing in nuclear power technology
 - Amazon investment in “X-Energy,” an SMR firm, to build in Washington State at the existing Columbia Generating Station





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