

# POWERING

OUR CLEAN ENERGY FUTURE



**ENERGY NORTHWEST**

# Energy Northwest

## A premier provider of clean energy

We take pride in providing our public power community and regional customers with safe, reliable, cost-effective, responsible power generation and innovative energy and business solutions with the highest standards of excellence.

Energy Northwest operates a diverse portfolio of hydroelectric, nuclear energy, solar, wind and battery storage facilities to the benefit of more than 1.5 million customers across the region. Through our mission, we are committed to developing new clean energy resources to help Washington state meet its clean energy goals.

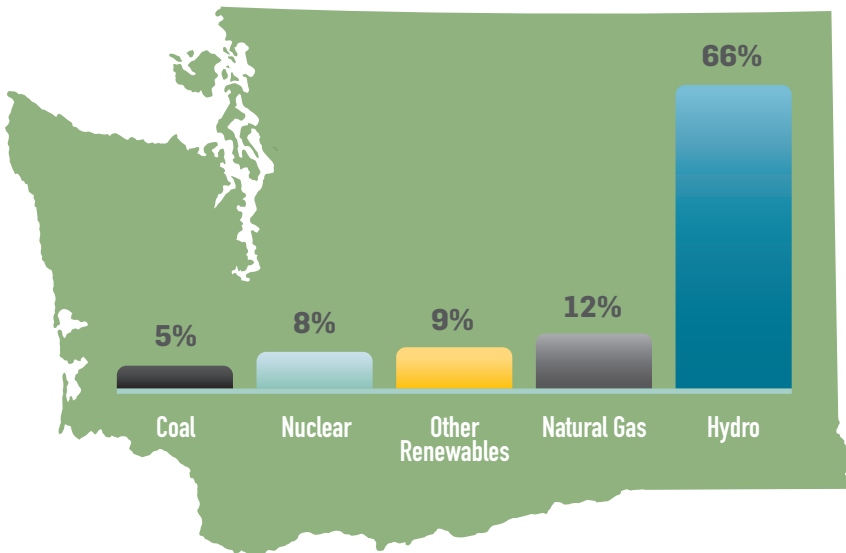
## A clean energy future for Washington

As Washington state implements the Clean Energy Transformation Act – requiring 100% carbon-free electricity by 2045 – new sources of reliable, affordable and emissions-free electricity will be needed to support growing energy demands.

Decarbonizing the electric grid is complex. Wind, solar and battery storage technologies are important, and deployment of these resources is underway, with Energy Northwest investing in and developing new utility-scale solar and storage projects. However, renewables alone cannot solve climate change and also maintain a reliable supply of electricity. Wind and solar generate electricity inconsistently, but energy is consumed 24-hours a day. Electricity is generated, transmitted and consumed simultaneously, and supply must always equal demand.

### Sources of Electricity in Washington

Source: Nuclear Energy Institute, 2022



## Reliable carbon-free electricity

Columbia Generating Station nuclear energy facility, located near Richland, Washington, is the third largest electricity generator in the state. Its 1,207 megawatts of capacity alone can power about 1 million homes.

Nuclear energy facilities produce power around the clock, without producing or releasing any carbon dioxide or other greenhouse gasses into the air. The columns of steam seen rising from the plant's cooling towers are pure water vapor. Nuclear energy has the lowest carbon footprint of any full-time energy resource, and it provides nearly 50% of the clean energy generated in the United States.



## Nuclear energy complements renewables

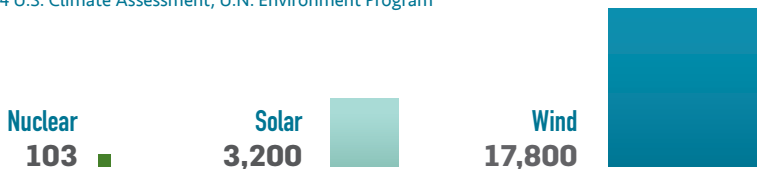
As a full-time power source, nuclear energy pairs well with renewable sources to provide electric grid reliability when other sources aren't available.

To generate the same amount of electricity as Columbia Generating Station, a wind farm would require more than 220 square miles. And, because wind and solar are spread out, they require more transmission lines to bring the electricity that powers homes and businesses.

### Land Use by Energy Source

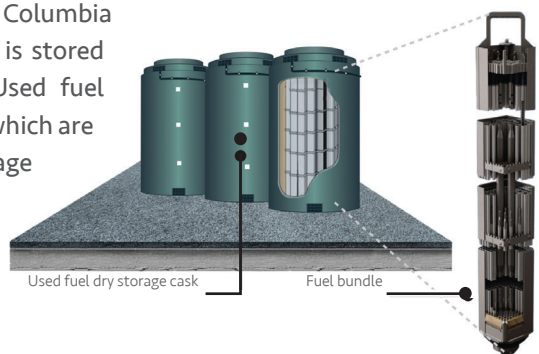
Acres per million megawatt-hours

Source: 2014 U.S. Climate Assessment, U.N. Environment Program



## Safely storing used nuclear fuel

All of the used fuel from nearly 40 years of Columbia Generating Station's commercial operation is stored safely on site in above ground storage. Used fuel assemblies are leak-proof, solid metal rods, which are placed in 185-ton concrete and steel dry storage casks. The casks are aircraft-impact resistant and can remain at Columbia for decades with no risk to the public.



Learn more about Columbia Generating Station in this video

## A leader in public power

As a joint operating agency, Energy Northwest is committed to supplying our public power members with services that will strengthen their utilities and communities.

Energy Northwest is leading the region in new energy solutions: From battery storage to the state's first utility-scale solar project, to expanding the electric vehicle charging network and being on the cutting edge of advanced nuclear reactors.

The agency is an economic partner and a good neighbor for the residents of the Tri-Cities and surrounding communities.

In addition to generating electricity, Energy Northwest supports:

- More than 2,800 jobs in Washington state
- A workforce of 1,000 full-time employees, 30% of which are veterans
- More than 1,000 temporary jobs during biennial refueling outages at Columbia Generating Station
- Competitive career opportunities in engineering, maintenance, planning, business, finance, operations and administration
- Internships for high school and college students
- Community outreach and education



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