Electricity Production Teacher Training & Kit
March 6, 2025 4-5:30 p.m.

Available to Teachers at No Cost

Receive a $275 kit with materials to build hydropower, solar, and wind generation models

Google Classroom access to:

- ✓ Curriculum with teacher notes via PowerPoint
- ✓ Video tutorials for kit assembly and classroom activity
- ✓ 90-minute training with clock hours for WA teachers or certificate of completion for 1.5 Professional Development Units for Oregon Teachers

Supplies Limited, Apply Now

- Sign up for training: https://www.pdenroller.org/esd171/catalog/180628
- Distribution will be First Come, First Serve
- Kits will be distributed after participant attends training

Questions?

Contact Bob Bauer (509) 661-4939
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Quality Assurance

- Written by Mechelle Lalanne, STEM Educational Consultant and former North Central ESD Managing Director of Science Education
- Aligned with Next Generation Science Standards
- Reviewed and supported by power generation provider

Sponsored by

FWEE Foundation for Water & Energy Education www.fwee.org

NWHA Northwest Hydroelectric Association

Northwest RiverPartners Hydropower for a better Northwest

Module Overview

Module 1. How does WA get its electricity? Students will research hydro, wind, solar, biomass, nuclear, coal, geothermal, natural gas, and petroleum and identify renewable and non-renewable sources of electricity.

Module 2. Do all states produce electricity the same way? Students will compare electricity generation in Pacific Northwest states to the nation.

Module 3. From where does the Columbia River get its water? Students will explore the Columbia River Basin, participate in a water molecule journey experience, and log data.

Module 4. Which clean, renewable energy is the most reliable? Students will build three generation stations (Wind, Solar, Hydro) to discover how these three forms of clean energy work together and which is most reliable.

Module 5. Which clean, renewable source of energy is most affordable? Students will calculate electricity costs in their home based on different sources of power generation.

SURVEY QUESTIONS: Based on what has been learned, students will explain the best power generation source to lead us to a clean energy future.