

Montana Environmental Information Center



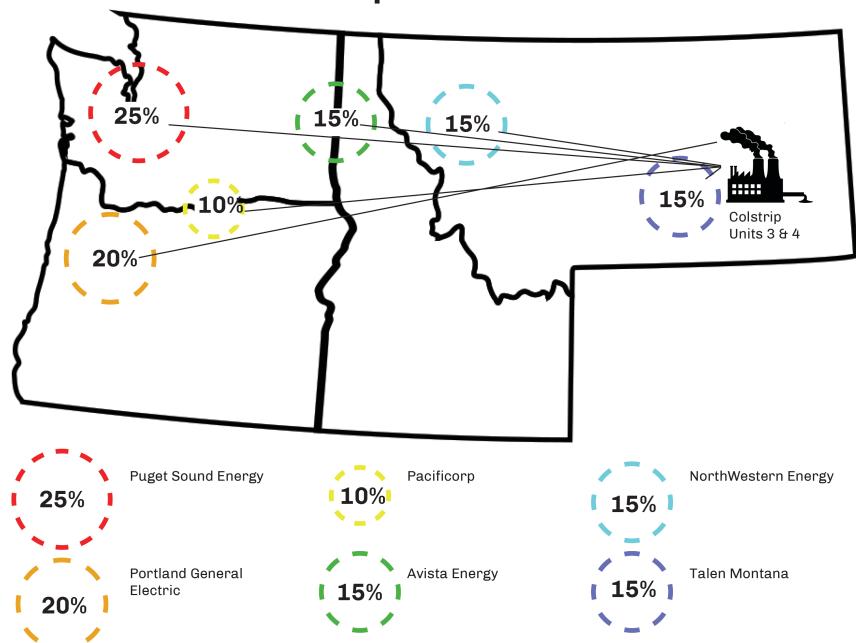
The Quarantine Series Colstrip 202

Deeper Dive into Costs & Risks of Colstrip



Colstrip
Ownership
Is
Complicated

Colstrip Units 3 and 4

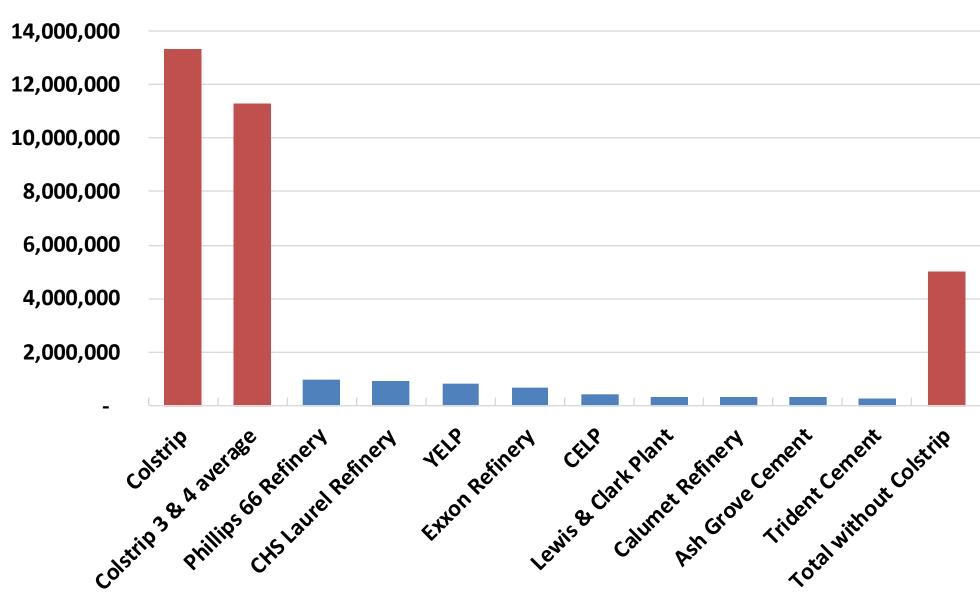




Colstrip Units 3 & 4 average greenhouse gases emissions equals:

- Over 1 billion gallons of gas burned
- Over 2 millionvehicles on theroad for 1 year
- Over 23 million barrels of oil burned

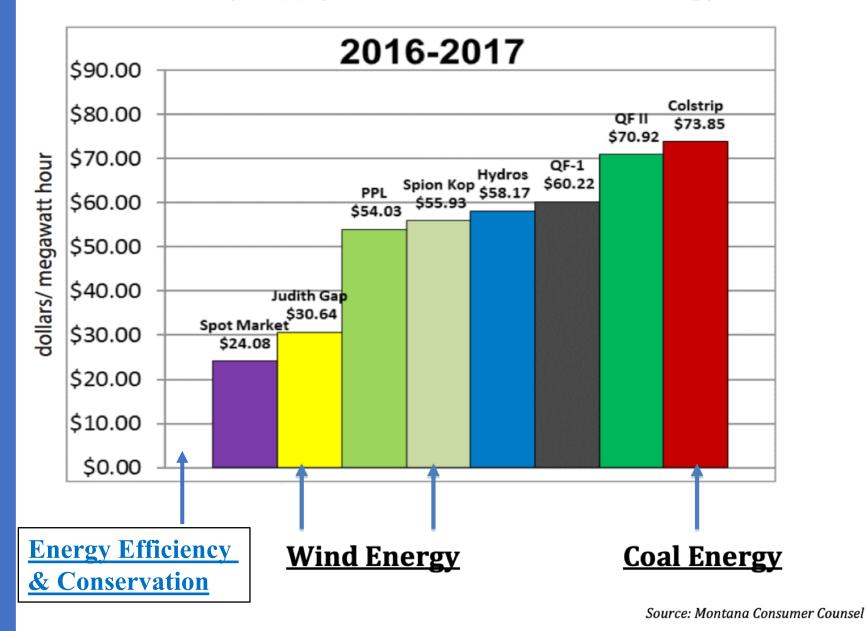






Colstrip is Expensive

Electricity Supply Costs for NorthWestern Energy





What Makes Colstrip So Expensive?

1. The original sin

- > 2007: NWE paid \$187 million for 30% of CU4 (220 megawatts)
- ➤ 2008: NWE *coaxes* PSC into requiring NWE's customers pay \$407 million at an 8.25% rate of return until 2043.

2. Day-to-Day costs.



Shhhhh. It's a secret!

> 2020 Coal Supply Agreement

(NorthWestern Requested)

Colstrip Unit 4 Operations data

(Talen Requested)

Colstrip budget

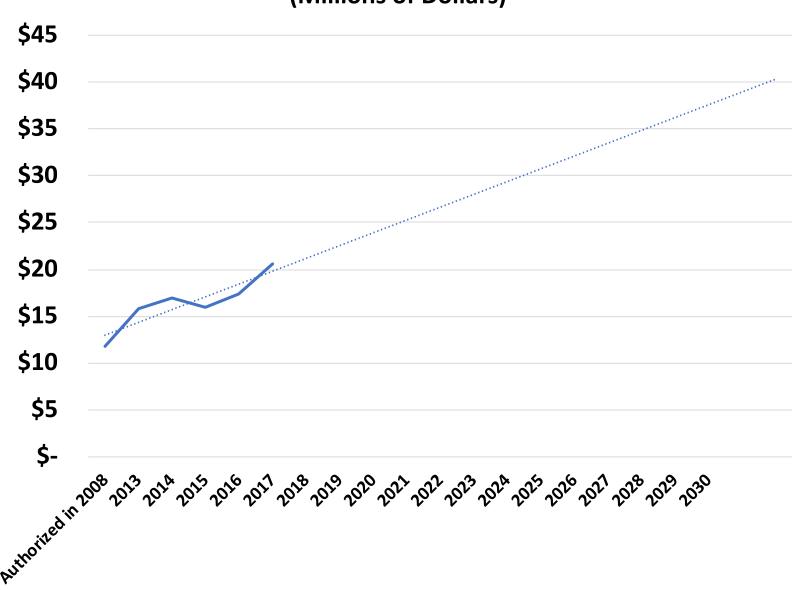
(Talen Requested)

- Colstrip capital expenditures projections
 i..e., \$20 million Superheater (Talen Requested)
- Cost estimates for environmental compliance (Talen Requested)

NorthWestern's CU4 Application, Docket 2019.12.101, page 7

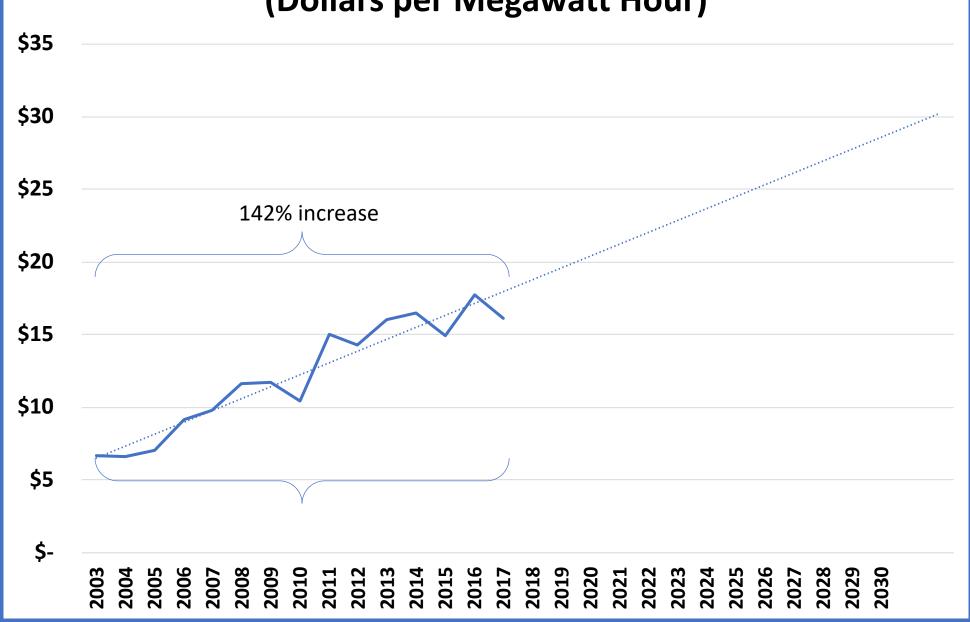


NorthWestern's Annual Colstrip Fixed Operation & Maintenance Costs (Millions of Dollars)





Average Annual Colstrip Fuel Prices (Dollars per Megawatt Hour)



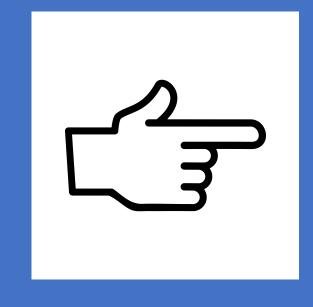


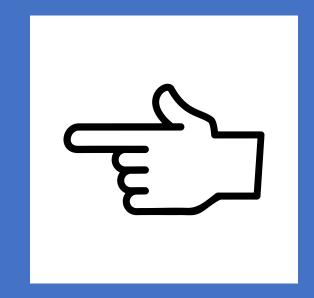
Coal Ash – Who Pays?





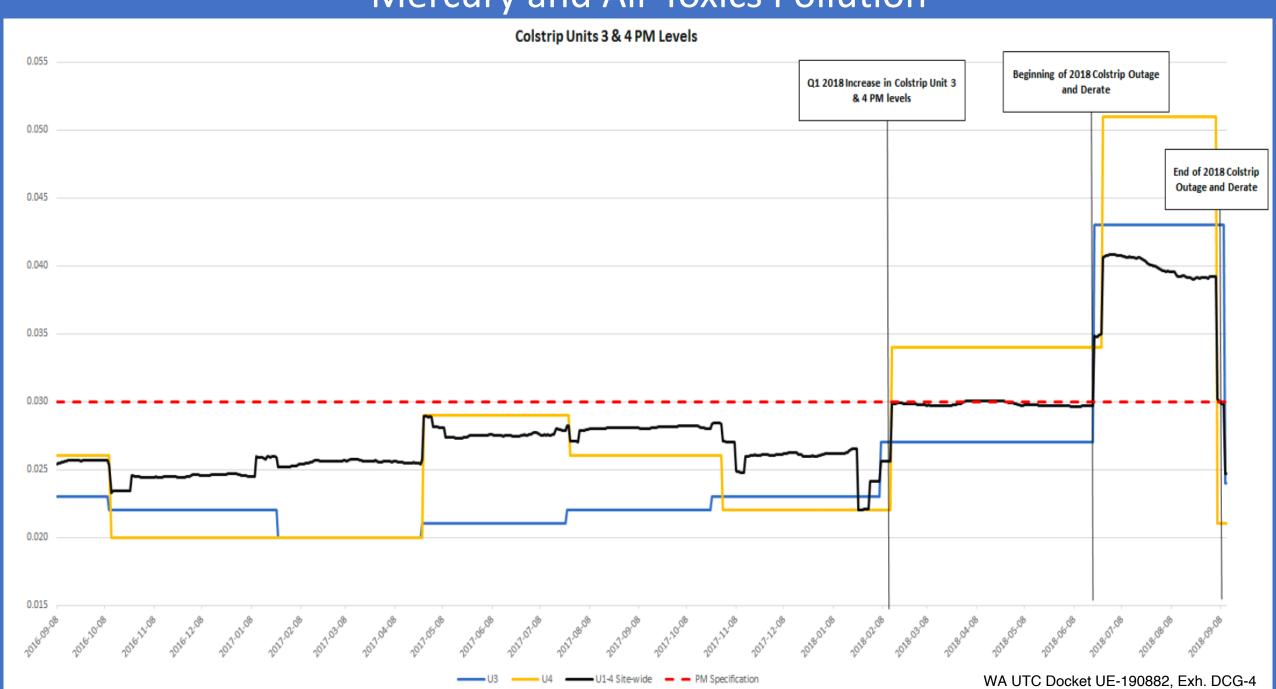
NorthWestern Energy v. Puget Sound Energy





- DEQ conditionally approved the CU3 & 4 Ash Ponds cleanup plan. Customers could pay millions more if Talen's deeply flawed plans fail.
- ➤ EPA is on its 6th rulemaking to weaken coal ash requirements.

Mercury and Air Toxics Pollution





Other Cost That Are More Than \$1

- Increased Fixed Costs:
 - increases when Units 1 & 2 closed
 - Increases when Unit 3 closes
- New Coal Contract = Increased Costs and minimum 4.25 million tons; \$27+/ton
- Greenhouse Gas Regulations: modest cost of \$10/ton = \$30 million/year for NWE's share of CU4
- Capital Expenditures for Aging Infrastructure
 - changed use from baseload to wind integration
 - Superheater Boiler Cost

Alternatives are cheaper (unless they're ignored)





Questions & Answers

Using the "Chat" Function, please type in your question

For More Information or to join MEIC go to: meic.org



Join us
Thursday, April 16th, 4 pm
for
Energy 303
From Colstrip to Clean Energy