

Enter Data
Formula

WA Utility (non multi-jurisdictional)		Allowance Allocation Calculation for 2023-2026						
YEAR	Formula descriptions	2023	2024	2025	2026	Field description	Data source and calculation method	
Energy to Serve Load (MWh)	A					Forecasted annual energy demand, including transmission and other losses.	Most recent IRP or other board-approved forecast, or a more up-to-date forecast adapted as needed to account for the CCA	
DECLARED RESOURCES:		Generation forecasts are informed by IRP analysis and inclusive of CEIP specific actions.						
BPA Specified-source purchases (total) (MWh)	B					Estimate of annual energy generation provided by the Bonneville Power Administration. E.g. specified-source purchases including block, slice, and load-following products or other specified ACS purchases.		
Coal - Total (MWh)	C	-	-	-	n/a - not permitted under CETA	Total forecasted generation from owned or long-term contracted specified-source coal resources.		
Aggregate Coal Generation (Less Specified Resources)	C1				n/a - not permitted under CETA	Energy acquired from aggregate coal generation (less specified resources).		
Specified Coal Resource #1	C2				n/a - not permitted under CETA	Generation from Specified Coal Resource #1, an owned or long-term contracted resource.		
Specified Coal Resource #2	C3				n/a - not permitted under CETA	Generation from Specified Coal Resource #2, an owned or long-term contracted resource.		
Natural Gas - Total (MWh)	D	-	-	-	-	Total forecasted generation from owned or long-term contracted specified-source natural gas resources.		
Aggregate Natural Gas Generation (Less Specified Resources)	D1					Energy acquired from aggregate natural gas generation (less specified resources).		
Specified Natural Gas Resource #1	D2					Generation from Specified Natural Gas Resource #1, an owned or long-term contracted resource.		
Specified Natural Gas Resource #2	D3					Generation from Specified Natural Gas Resource #2, an owned or long-term contracted resource.		
Hydro - Total (MWh)	E					Total forecasted generation from owned or long-term contracted specified-source hydro resources.	Assume "average," "P50," or "base case" hydro conditions	
Other Renewables & Non-Emitting Resources - Total (MWh)	F					Total forecasted generation from owned or long-term contracted specified-source non-hydro renewables and other non-emitting resources.		
Unspecified Purchases (MWh)	G = A - (sum of B through F)	-	-	-	-	Estimate of generation to be acquired through unspecified wholesale market purchases. Unspecified purchases are assumed to be the backstop resource.	Energy to serve load minus the sum of all dspecified sources.	
Operational adjustment (MWh)	H = A * 5%	-	-	-	-	Estimate of shorter-term balancing transactions that carry CCA compliance obligations	Energy to serve load multiplied by 5%. This 5% adder reflects estimated shorter term balancing transactions that carry CCA compliance obligations.	
BPA Unspecified Imports, if BPA is not FJD (MWh)	I					Estimate of unspecified imports from BPA for each year, if BPA is not the FJD	Utility specific estimate	

Constants Used in Calculations

0.0154	Asset Controlling Supplier (ACS) factor for Bonneville Power Administration - Average of ACS factors used in previous four years (2019-2022) (MTCO ₂ e/MWh)
--------	--

1.0614	Default Coal Emissions Factor (MTCO ₂ e/MWh)
WW	Specified Coal Resource #1 emissions factor, if known (MT CO ₂ e/MWh)
XX	Specified Coal Resource #2 emissions factor, if known (MT CO ₂ e/MWh)

0.4354	Default Natural Gas Emission Factor (MTCO ₂ e/MWh)
YY	Specified Natural Gas Resource #1 emissions factor, if known (MT CO ₂ e/MWh)
ZZ	Specified Natural Gas Resource #2 emissions factor, if known (MT CO ₂ e/MWh)

0.437	Unspecified emissions factor established in WAC 173-444-040
5.00%	Estimated balancing purchases and sales as a percentage of total energy to serve load
0.437	Unspecified emissions factor established in WAC 173-444-040

EMISSIONS ASSOCIATED WITH DECLARED RESOURCES:							
MT CO2e BPA purchases	J = B * BPA's ACS emissions factor	-	-	-	-	Metric tons of CO2 equivalent associated with BPA purchases.	Total BPA purchases multiplied by BPA's ACS factor.
MT CO2e Coal	K = C * coal emissions factor(s)	#VALUE!	#VALUE!	#VALUE!	n/a - not permitted under CETA	Metric tons of CO2 equivalent associated with specified-source coal generation.	Total generation from owned or long-term contracted specified-source coal resources multiplied by the relevant coal emissions factor(s) (default coal emissions factor or specific emissions factors, when known).
MT CO2e Natural gas	L = D * natural gas emissions factor(s)	#VALUE!	#VALUE!	#VALUE!	#VALUE!	Metric tons of CO2 equivalent associated with specified-source natural gas generation.	Total generation from owned or long-term contracted specified-source natural gas resources multiplied by the relevant natural gas emissions factor(s) (default natural gas factor or specific natural gas factor, when known)
MT CO2e Unspecified purchases	M = G * unspecified emissions factor	-	-	-	-	Metric tons of CO2 equivalent associated with unspecified purchases.	Total generation estimated to be acquired through unspecified purchases multiplied by the unspecified emissions factor established in WAC 173-444-040
MT CO2e Operational adjustment	N = K * unspecified emissions factor	-	-	-	-	Metric tons of CO2 equivalent associated with the operational adjustment.	Operational adjustment value multiplied by the unspecified emissions factor established in WAC 173-444-040
MT CO2e BPA unspecified imports	O = I * unspecified emissions factor	-	-	-	-	Metric tons of CO2 equivalent associated with importing unspecified BPA power if BPA chooses not to be the FJD	Total BPA imports multiplied by the unspecified emissions factor established in WAC 173-444-040
Energy supplied to EITEs (MWh)	P					Energy supplied to industrial covered entities by the utility. Fill out this field ONLY IF EITEs are receiving allowances for energy consumption directly. Otherwise, assume inclusion of energy supplied to EITEs in utility-specific emissions ("R").	
EITE Emissions (MTCO2e)	Q = (P / A) * sum of J through O	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	EITE Purchased Electricity multiplied by Utility-Specific Emissions Factor	Energy provided to EITE customers divided by all energy to serve load, then multiplied by the sum of all emissions associated with declared resources.
Utility-Specific Emissions (MTCO2e)	R = sum of J through O - Q	#VALUE!	#VALUE!	#VALUE!	#VALUE!	Total metric tons of CO2 equivalent associated with energy to serve load.	Sum of all emissions associated with declared resources subtracted by emissions associated with industrial covered entities.
COST BURDEN CALCULATION:							
Utility-Specific emissions allowances	S	#VALUE!	#VALUE!	#VALUE!	#VALUE!	Total metric tons of CO2 equivalent associated with energy to serve load.	Total metric tons of CO2 equivalent associated with energy to serve load.
Administrative Costs Allowance Adjustment	T = estimated annual administrative cost / allowance floor price	-	-	-	-	Projected administrative costs associated with participation in the CCA program and allowance market/auction.	Projected administrative cost per year divided by the estimated floor price for one emissions allowance.
Power Cost Adjustment	U = estimated annual power cost impacts / allowance price used to estimate power costs					Projected power cost impacts due to redispatch - CO2 cost in thermal dispatch decreases wholesale market sales, increases average production cost.	Projected increased power costs per year divided by the assumed price of emissions allowance equal to forecast in Appendix H.1 of Ecology's Preliminary Regulatory Analysis for Chapter 173-446 WAC
Annual Allocation (allowances)	V = S+T+U	#VALUE!	#VALUE!	#VALUE!	#VALUE!	Utility-Specific Emissions Allowances PLUS Administrative cost allowance adjustment PLUS Power Cost Adjustment	Utility-Specific Emissions less EITE Emissions PLUS Administrative cost allowance adjustment PLUS Power adjustment

	Estimated cost burden for administration each year: reporting, market participation, auction tracking, etc. In dollars.
\$22.34	Estimated allowance floor price for 2023

\$23.46	Estimated allowance floor price for 2024 (not adjusted for inflation)
\$24.63	Estimated allowance floor price for 2025 (not adjusted for inflation)
\$25.86	Estimated allowance floor price for 2026 (not adjusted for inflation)