

# **MW ANALYTICS**

Energy & Utility Consulting

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## **ABOUT**

MW Analytics is the professional consulting practice of Brad Mullins, a consultant and expert witness that represents utility customers in regulatory proceedings before state utility commissions throughout the Western United States. Brad has sponsored expert witness testimony in over 80 regulatory proceeding encompassing a variety of subject matters, including revenue requirement, regulatory accounting, rate development, and new resource additions. Brad has also assisted his clients through numerous informal regulatory, legislative and energy policy matters. In addition to providing regulatory services, MW Analytics also provides advisory, energy marketing and other energy consulting services.

## **PRACTICE AREAS**

MW Analytics has experience representing customer interests in litigated and informal regulatory proceedings, including the following subject areas:

- Revenue Requirement
- Power Cost Modeling
- Tax Provisions and Tax Reform
- Capital Additions and Forecasting
- Regulatory Accounting
- Depreciation Studies
- Pole Attachments
- Integrated Resource Planning
- Avoided Cost Calculations
- Utility Plant Retirements

## **EDUCATION AND WORK EXPERIENCE**

Brad has a Master of Accounting degree from the University of Utah. After obtaining his master's degree, Brad worked at Deloitte Tax in San Jose, California, where he was responsible for preparing corporate tax returns for multinational corporate clients and partnership returns for hedge fund clients. Brad was later promoted to a Tax Senior position in a national tax practice specializing research and development tax credit studies. Following Deloitte, Brad worked at PacifiCorp Energy, as an analyst involved in power cost modeling and forecasting. At PacifiCorp Brad was responsible for preparing power cost forecasts and supporting testimony for regulatory filings, preparing annual power cost deferral filings, and developing qualifying facility avoided cost calculations.

## **REGULATORY APPEARANCES**

Brad has sponsored expert witness testimony in the following regulatory proceedings:

<b>Docket</b>	<b>Party</b>	<b>Topics</b>
<u>In re PacifiCorp Limited Issue Rate Filing</u> , Wa.UTC Docket No. UE-210532.	Alliance of Western Energy Consumers	Revenue Requirement / Settlement
<u>In re the Application of Rocky Mountain Power for Authority to Increase Its Rates and Charges in Idaho and Approval of Proposed Electric Service Schedules and Regulations</u> , Id.PUC Case No. PAC-E-21-07.	PacifiCorp Idaho Industrial Customers	Revenue Requirement / Settlement
<u>In re Portland General Electric, Request for a General Rate Revision</u> , Or.PUC Docket No. UE 394.	Alliance of Western Energy Consumers	Power Cost Modeling

<b>Docket</b>	<b>Party</b>	<b>Topics</b>
<u>In re Joint Application of Nevada Power Company d/b/a NV Energy and Sierra Pacific Power Company d/b/a NV Energy for approval of their Economic Recovery Transportation Electrification Plan for the period 2022-2024, PUC Nv. Docket No. 21-09004</u>	Nevada Resort Association	Transportation Electrification
<u>In re PacifiCorp, dba Pacific Power, 2020 Power Cost Adjustment Mechanism, Or.PUC Docket No. UE 392.</u>	Alliance of Western Energy Consumers	Power Cost Deferral
<u>In re the Application of Rocky Mountain Power for Authority to Decrease Current Rates by \$14.9 Million to Refund Deferred Net Power Costs Under Tariff Schedule 95 Energy Cost Adjustment Mechanism and to Decrease Current Rates by \$166 Thousand Under Tariff Schedule 93, REC and SO2 Revenue Adjustment Mechanism, Wy.PSC Docket No. 20000-599-EM-21.</u>	Wyoming Industrial Energy Consumers	Power Cost Deferral
<u>In re Portland General Electric 2021 Annual Update Tariff Schedule 125, Or. PUC Docket No. UE 391.</u>	Alliance of Western Energy Consumers	Power Cost Modeling
<u>In re Joint Application of Nevada Power Company d/b/a NV Energy and Sierra Pacific Power Company d/b/a NV Energy for approval of a regulatory asset account to recover costs relating to the development and implementation of their Joint Natural Disaster Protection Plan, PUC NV. Docket No. 21-03004.</u>	Wynn Las Vegas, LLC; Smart Energy Alliance	Single-Issue Rate Filing
<u>In re PacifiCorp d.b.a. Pacific Power, 2022 Transition Adjustment Mechanism, Or.PUC Docket No. UE 390.</u>	Alliance of Western Energy Consumers	Power Cost Modeling
<u>In re Avista 2020 General Rate Case, Wa.U.T.C. Docket No. UE-200900 (Cons.).</u>	Alliance of Western Energy Consumers	Revenue Requirement
<u>In re NV Energy's Fourth Amendment to Its 2018 Joint Integrated Resource Plan, PUC Nv. Docket No 20-07023.</u>	Wynn Las Vegas, LLC; Smart Energy Alliance	Transmission Planning
<u>In Re Cascade Natural Gas Corporation, 2020 General Rate Case, Wa.U.T.C. Docket No. UG-200568</u>	Alliance of Western Energy Consumers	Revenue Requirement
<u>In re Cascade Natural Gas Corporation, Petition to File Depreciation Study, Or.PUC Docket No. UM 2073</u>	Alliance of Western Energy Consumers	Depreciation Rates
<u>In re the Application of Rocky Mountain Power for Authority to Increase Current Rates By \$7.4 Million to Recover Deferred Net Power Costs Under Tariff Schedule 95 Energy Cost Adjustment Mechanism and to Decrease Current Rates by \$604 Thousand Under Tariff Schedule 93, Rec and So2 Revenue Adjustment Mechanism, Wy.PSC Docket No. 20000-582-EM-20</u>	Wyoming Industrial Energy Consumers	Power Cost Deferral
<u>In re the Complaint of Willamette Falls Paper Company and West Linn Paper Company against Portland General Electric Company, Or.PUC Docket No. UM 2107</u>	Willamette Falls Paper Company	Consumer Direct Access, Tariff Dispute
<u>In re The Application of Rocky Mountain Power for Authority to Increase its Retail Electric Service Rates by Approximately \$7.1 Million Per Year or 1.1 Percent, to Revise the Energy Cost Adjustment Mechanism, and to Discontinue Operations at Cholla Unit 4, Wy.PSC Docket No. 2000-578-ER-20</u>	Wyoming Industrial Energy Consumers	Power Cost Modeling
<u>Avista Corporation 2021 General Rate Case, Or.PUC Docket No. UG 389</u>	Alliance of Western Energy Consumers	Revenue Requirement, Rate Design
<u>In re NW Natural Request for a General Rate Revision, Or.PUC Docket No. UG 388.</u>	Alliance of Western Energy Consumers	Revenue Requirement, Rate Design
<u>In re PacifiCorp, Request to Initiate an Investigation of Multi-Jurisdictional Issues and Approve an Inter-Jurisdictional Cost Allocation Protocol, Or.PUC, UM 1050.</u>	Alliance of Western Energy Consumers	Jurisdictional Allocation
<u>In re Puget Sound Energy 2019 General Rate Case, Wa.UTC Docket No. UE 190529.</u>	Alliance of Western Energy Consumers	Revenue Requirement, Coal Retirement Costs

<b>Docket</b>	<b>Party</b>	<b>Topics</b>
<u>Avista Corporation 2020 General Rate Case, Wa.UTC Docket No. UE-190334 (Cons.)</u>	Alliance of Western Energy Consumers	Revenue Requirement, Rate Design
<u>In re Cascade Natural Gas Corporation Application for Approval of a Safety Cost Recovery Mechanism, Or. PUC Docket No. UM 2026,</u>	Alliance of Western Energy Consumers	Rate-making Policy
<u>In re Avista Corporation, Request for a General Rate Revision, Or.PUC Docket No. UG 366.</u>	Alliance of Western Energy Consumers	Revenue Requirement, Rate Design
<u>In re Portland General Electric, 2020 Annual Update Tariff (Schedule 125), Or.PUC Docket No UE 359.</u>	Alliance of Western Energy Consumers	Power Cost Modeling
<u>In re PacifiCorp 2020 Transition Adjustment Mechanism, Or.PUC Docket No. UE 356.</u>	Alliance of Western Energy Consumers	Power Cost Modeling
<u>In re PacifiCorp 2020 Renewable Adjustment Clause, Or.PUC Docket No. UE 352.</u>	Alliance of Western Energy Consumers	Single-Issue Rate Filing
<u>2020 Joint Power and Transmission Rate Proceeding, Bonneville Power Administration, Case No. BP-20,</u>	Alliance of Western Energy Consumers	Revenue Requirement, Policy
<u>In the Matter of the Application of MSG Las Vegas, LLC for a Proposed Transaction with a Provider of New Electric Resources, PUC Nv. Docket No. 18-10034</u>	Madison Square Garden	Customer Direct Access
<u>Puget Sound Energy 2018 Expedited Rate Filing, Wa.UTC Dockets UE-180899/UG-180900 (Cons.).</u>	Alliance of Western Energy Consumers	Revenue Requirement, Settlement
<u>Georgia Pacific Gypsum LLC's Application to Purchase Energy, Capacity, and/or Ancillary Services from a Provider of New Electric Resources, PUC Nv. Docket No. 18-09015.</u>	Georgia Pacific	Customer Direct Access
<u>Joint Application of Nevada Power Company d/b/a NV Energy for approval of their 2018-2038 Triennial Integrated Resource Plan and 2019-2021 Energy Supply Plan, PUCN Docket No. 18-06003.</u>	Smart Energy Alliance	Resource Planning
<u>In re Cascade Natural Gas Corporation Request for a General Rate Revision, Or.PUC, Docket No. UE 347.</u>	Alliance of Western Energy Consumers	Revenue Requirement, Rate Design
<u>In re Portland General Electric Company Request for a General Rate Revision, Or.PUC Docket No UE 335.</u>	Alliance of Western Energy Consumers	Revenue Requirement, Rate Design
<u>In re Northwest Natural Gas Company, dba NW Natural, Request for a General Rate Revision, Or.PUC Docket No. UG 344.</u>	Alliance of Western Energy Consumers	Revenue Requirement, Rate Design
<u>In re Cascade Natural Gas Corporation Request for a General Rate Revision, Wa.UTC, Docket No. UE-170929.</u>	Northwest Industrial Gas Users	Revenue Requirement, Rate Design
<u>In the Matter of Hydro One Limited, Application for Authorization to Exercise Substantial Influence over the Policies and Actions of Avista Corporation, Or.PUC, Docket No. UM 1897.</u>	Alliance of Western Energy Consumers	Merger
<u>Application of Rocky Mountain Power for Approval of a Significant Energy Resource Decision and Voluntary Request for Approval of Resource Decision, Ut.PSC Docket No. 17-035-40</u>	Utah Industrial Energy Consumers, & Utah Associated Energy Users	New Resource Addition
<u>In re PacifiCorp, dba Rocky Mountain Power, for a CPCN and Binding Rate-making Treatment for New Wind and Transmission Facilities, Id.PUC Case No. PAC-E-17-07</u>	PacifiCorp Idaho Industrial Customers	New Resource Addition
<u>In re PacifiCorp, dba Pacific Power, 2016 Power Cost Adjustment Mechanism, Or.PUC, Docket No. UE 327.</u>	Alliance of Western Energy Consumers	Power Cost Deferral
<u>In re PacifiCorp 2016 Power Cost Adjustment Mechanism, Wa.UTC Docket No. UE-170717</u>	Boise Whitepaper, LLC	Power Cost Deferral

<b>Docket</b>	<b>Party</b>	<b>Topics</b>
<u>In re Avista Corporation 2018 General Rate Case, Wa.UTC Dockets UE-170485 and UG-170486 (Consolidated).</u>	Industrial Customers of Northwest Utilities, & Northwest Industrial Gas Users	Revenue Requirement, Rate Design
<u>Application of Nevada Power Company d/b/a NV Energy for authority to adjust its annual revenue requirement for general rates charged to all classes of electric customers and for relief properly related thereto, PUCN. Docket No. 17-06003.</u>	Smart Energy Alliance	Revenue Requirement
<u>In re the Application of Rocky Mountain Power for Authority to Decrease Current Rates by \$15.7 Million to Refund Deferred Net Power Costs Under Tariff Schedule 95 Energy Cost Adjustment Mechanism and to Decrease Current Rates By \$528 Thousand Under Tariff Schedule 93, REC and SO2 Revenue Adjustment Mechanism, Wy. PSC, Docket No. 20000-514-EA-17 (Record No. 14696).</u>	Wyoming Industrial Energy Consumers	Power Cost Deferral
<u>In re the 2018 General Rate Case of Puget Sound Energy, Wa.UTC, Docket No. UE-170033 (Cons.).</u>	Industrial Customers of Northwest Utilities, & Northwest Industrial Gas Users	Revenue Requirement, Rate Design
<u>In re PacifiCorp, dba Pacific Power, 2018 Transition Adjustment Mechanism, Or.PUC, Docket No. UE 323.</u>	Industrial Customers of Northwest Utilities	Power Cost Modeling
<u>In re Portland General Electric Company, Request for a General Rate Revision, Or.PUC, Docket No. UE 319.</u>	Industrial Customers of Northwest Utilities	Revenue Requirement, Rate Design
<u>In re Portland General Electric Company, Application for Transportation Electrification Programs, Or.PUC, UM 1811.</u>	Industrial Customers of Northwest Utilities	Electric Vehicle Charging
<u>In re Pacific Power &amp; Light Company, Application for Transportation Electrification Programs, Or.PUC, Docket No. UM 1810.</u>	Industrial Customers of Northwest Utilities	Single-issue Ratemaking
<u>In re the Public Utility Commission of Oregon, Investigation to Examine PacifiCorp, dba Pacific Power's Non-Standard Avoided Cost Pricing, Or.PUC, Docket No. UM 1802.</u>	Industrial Customers of Northwest Utilities	Qualifying Facilities
<u>In re Pacific Power &amp; Light Co., Revisions to Tariff WN U-75, Advice No. 16-05, to modify the Company's existing tariffs governing permanent disconnection and removal procedures, Wa.UTC, Docket No. UE-161204.</u>	Boise Whitepaper, LLC	Customer Direct Access
<u>In re Puget Sound Energy's Revisions to Tariff WN U-60, Adding Schedule 451, Implementing a New Retail Wheeling Service, Wa.UTC, Docket No. UE-161123.</u>	Industrial Customers of Northwest Utilities	Customer Direct Access
<u>2018 Joint Power and Transmission Rate Proceeding, Bonneville Power Administration, Case No. BP-18.</u>	Industrial Customers of Northwest Utilities	Revenue Requirement, Policy
<u>In re Portland General Electric Company Application for Approval of Sale of Harborton Restoration Project Property, Or.PUC, Docket No. UP 334 (Cons.).</u>	Industrial Customers of Northwest Utilities	Environmental Deferral
<u>In re An Investigation of Policies Related to Renewable Distributed Electric Generation, Ar.PSC, Matter No. 16-028-U.</u>	Arkansas Electric Energy Consumers	Net Metering
<u>In re Net Metering and the Implementation of Act 827 of 2015, Ar.PSC, Matter No. 16-027-R.</u>	Arkansas Electric Energy Consumers	Net Metering
<u>In re the Application of Rocky Mountain Power for Approval of the 2016 Energy Balancing Account, Ut.PSC, Docket No. 16-035-01</u>	Utah Associated Energy Users	Power Cost Deferral
<u>In re Avista Corporation Request for a General Rate Revision, Wa.UTC, Docket No. UE-160228 (Cons.).</u>	Industrial Customers of Northwest Utilities, & Northwest Industrial Gas Users	Revenue Requirement, Rate Design

<b>Docket</b>	<b>Party</b>	<b>Topics</b>
<u>In re the Application of Rocky Mountain Power to Decrease Current Rates by \$2.7 Million to Recover Deferred Net Power Costs Pursuant to Tariff Schedule 95 and to Increase Rates by \$50 Thousand Pursuant to Tariff Schedule 93, Wy.PSC, Docket No. 20000-292-EA-16.</u>	Wyoming Industrial Energy Consumers	Power Cost Deferral
<u>In re PacifiCorp, dba Pacific Power, 2017 Transition Adjustment Mechanism, Or.PUC, Docket No. UE 307.</u>	Industrial Customers of Northwest Utilities	Power Cost Modeling
<u>In re Portland General Electric Company, 2017 Annual Power Cost Update Tariff (Schedule 125), Or.PUC, Docket No. UE 308.</u>	Industrial Customers of Northwest Utilities	Power Cost Modeling
<u>In re Pacific Power &amp; Light Company, General rate increase for electric services, Wa.UTC, Docket No. UE-152253.</u>	Boise Whitepaper, LLC	Revenue Requirement, Rate Design
<u>In The Matter of the Application of Rocky Mountain Power for Authority of a General Rate Increase in Its Retail Electric Utility Service Rates in Wyoming of \$32.4 Million Per Year or 4.5 Percent, Wy.PSC, Docket No. 20000-469-ER-15.</u>	Wyoming Industrial Energy Consumers	Power Cost Modeling
<u>In re Avista Corporation, General Rate Increase for Electric Services, Wa.UTC, Docket No. UE-150204.</u>	Industrial Customers of Northwest Utilities	Revenue Requirement, Rate Design
<u>In re the Application of Rocky Mountain Power to Decrease Rates by \$17.6 Million to Recover Deferred Net Power Costs Pursuant to Tariff Schedule 95 to Decrease Rates by \$4.7 Million Pursuant to Tariff Schedule 93, Wy.PSC, Docket No. 20000-472-EA-15.</u>	Wyoming Industrial Energy Consumers	Power Cost Deferral
<u>Formal complaint of The Walla Walla Country Club against Pacific Power &amp; Light Company for refusal to provide disconnection under Commission-approved terms and fees, as mandated under Company tariff rules, Wa.UTC, Docket No. UE-143932.</u>	Columbia Rural Electric Association	Customer Direct Access / Customer Choice
<u>In re PacifiCorp, dba Pacific Power, 2016 Transition Adjustment Mechanism, Or.PUC, Docket No. UE 296.</u>	Industrial Customers of Northwest Utilities	Power Cost Modeling
<u>In re Portland General Electric Company, Request for a General Rate Revision, Or.PUC, Docket No. UE 294.</u>	Industrial Customers of Northwest Utilities	Revenue Requirement, Rate Design
<u>In re Portland General Electric Company and PacifiCorp dba Pacific Power, Request for Generic Power Cost Adjustment Mechanism Investigation, Or.PUC, Docket No. UM 1662.</u>	Industrial Customers of Northwest Utilities	Power Cost Deferral
<u>In re PacifiCorp, dba Pacific Power, Application for Approval of Deer Creek Mine Transaction, Or.PUC, Docket No. UM 1712.</u>	Industrial Customers of Northwest Utilities	Single-issue Ratemaking
<u>In re Public Utility Commission of Oregon, Investigation to Explore Issues Related to a Renewable Generator's Contribution to Capacity, Or.PUC, Docket No. UM 1719.</u>	Industrial Customers of Northwest Utilities	Resource Planning
<u>In re Portland General Electric Company, Application for Deferral Accounting of Excess Pension Costs and Carrying Costs on Cash Contributions, Or.PUC, Docket No. UM 1623.</u>	Industrial Customers of Northwest Utilities	Single-issue Ratemaking
<u>2016 Joint Power and Transmission Rate Proceeding, Bonneville Power Administration, Case No. BP-16.</u>	Industrial Customers of Northwest Utilities	Revenue Requirement, Policy
<u>In re Puget Sound Energy, Petition to Update Methodologies Used to Allocate Electric Cost of Service and for Electric Rate Design Purposes, Wa.UTC, Docket No. UE-141368.</u>	Industrial Customers of Northwest Utilities	Cost of Service
<u>In re Pacific Power &amp; Light Company, Request for a General Rate Revision Resulting in an Overall Price Change of 8.5 Percent, or \$27.2 Million, Wa.UTC, Docket No. UE-140762.</u>	Boise Whitepaper, LLC	Revenue Requirement, Rate Design
<u>In re Puget Sound Energy, Revises the Power Cost Rate in WN U-60, Tariff G, Schedule 95, to reflect a decrease of \$9,554,847 in the Company's overall normalized power supply costs, Wa.UTC, Docket No. UE-141141.</u>	Industrial Customers of Northwest Utilities	Power Cost Modeling

Docket	Party	Topics
<u>In re the Application of Rocky Mountain Power for Authority to Increase Its Retail Electric Utility Service Rates in Wyoming Approximately \$36.1 Million Per Year or 5.3 Percent, Wy.PSC, Docket No. 20000-446-ER-14.</u>	Wyoming Industrial Energy Consumers	Power Cost Modeling
<u>In re Avista Corporation, General Rate Increase for Electric Services, RE, Tariff WN U-28, Which Proposes an Overall Net Electric Billed Increase of 5.5 Percent Effective January 1, 2015, Wa.UTC, Docket No. UE-140188.</u>	Industrial Customers of Northwest Utilities	Revenue Requirement, Rate Design, Power Costs
<u>In re PacifiCorp, dba Pacific Power, Application for Deferred Accounting and Prudence Determination Associated with the Energy Imbalance Market, Or.PUC, Docket No. UM 1689.</u>	Industrial Customers of Northwest Utilities	Single-issue Ratemaking
<u>In re PacifiCorp, dba Pacific Power, 2015 Transition Adjustment Mechanism, Or.PUC, Docket No. UE 287.</u>	Industrial Customers of Northwest Utilities	Power Cost Modeling
<u>In re Portland General Electric Company, Request for a General Rate Revision, Or.PUC, Docket No. UE 283.</u>	Industrial Customers of Northwest Utilities	Revenue Requirement, Rate Design
<u>In re Portland General Electric Company's Net Variable Power Costs (NVPC) and Annual Power Cost Update (APCU), Or.PUC, Docket No. UE 286.</u>	Industrial Customers of Northwest Utilities	Power Cost Modeling
<u>In re Portland General Electric Company 2014 Schedule 145 Boardman Power Plant Operating Adjustment, Or.PUC, Docket No. UE 281.</u>	Industrial Customers of Northwest Utilities	Coal Retirement
<u>In re PacifiCorp, dba Pacific Power, Transition Adjustment, Five-Year Cost of Service Opt-Out (adopting testimony of Donald W. Schoenbeck), Or.PUC, Docket No. UE 267.</u>	Industrial Customers of Northwest Utilities	Customer Direct Access