

## EXPERT WITNESS TESTIMONY LISTING

Sponsor	Date	Jurisdiction	Docket No.	Subject
<b>Cost of Service / Rate Design / Bill Impact Analysis</b>				
Liberty Utilities (Midstates Natural Gas)	02/2024	Missouri Public Service Commission	Docket No. GR-2024-0106	Sponsored testimony supporting the class cost of service, rate design, bill impact and lead-lag studies for a general rate case proceeding.
Shenandoah Valley Electric Cooperative	01/2024	Virginia State Corporation Commission	Case No. PUR-2023-00207	Sponsored report and studies related to revenue requirements, class cost of service, rate design, and bill impact analysis for a streamlined application to increase base rates.
Liberty Utilities (Midstates Natural Gas)	12/2023	Illinois Commerce Commission	Docket No. 23-0380	Sponsored testimony supporting cost of service, rate design, bill impact and lead-lag studies for a general rate case proceeding.
New Mexico Gas Company, Inc.	09/2023	New Mexico Public Regulation Commission	Case No. 23-00255-UT	Sponsored testimony supporting the class cost of service, rate design, bill impact and weather normalization adjustment mechanisms for a general rate case proceeding.
Southwest Gas Corporation	09/2023	Nevada Public Utilities Commission	Docket No. 23-09012	Sponsored testimony supporting the class cost of service, rate design, bill impact and Lead/Lag studies for a general rate case proceeding.
Monongahela Power Company and The Potomac Edison Company (FirstEnergy)	06/2023	West Virginia Public Service Commission	Case No. 23-0460-E-42T	Sponsored testimony supporting the class cost of service, rate design, bill impact and lead-lag studies for a general rate case proceeding.
Northern Utilities, Inc. d/b/a Unitil	05/2023	Maine Public Utilities Commission	Docket No. 2023-00051	Sponsored testimony supporting a marginal cost study, class cost of service study, rate design and customer bill impact for a general rate case proceeding.
Artesian Water Company	04/2023	Delaware Public Service Commission	Docket No. 23-0601	Sponsored testimony supporting the cost of service, rate design and bill impact studies for a general rate case proceeding.
Lansing Board of Water & Light and Michigan State University	04/2023	Michigan Public Service Commission	Docket No. U-21308	Sponsored testimony evaluating Consumer Energy's class cost of service and rate design proposals.
Jersey Central Power and Light Company (FirstEnergy)	03/2023	New Jersey Board of Public Utilities	Docket No. ER23030144	Sponsored testimony supporting the class cost of service and Lead/Lag studies for a general rate case proceeding.
The Potomac Edison Company (FirstEnergy)	03/2023	Maryland Public Service Commission	Case No. 9695	Sponsored testimony supporting the class cost of service, rate design, bill impact and lead-lag studies for a general rate case proceeding.
Bluegrass Water Utility (Central States Water Company)	02/2023	Kentucky Public Service Commission	Case No. 2022-00432	Sponsored testimony supporting the rate design and bill impact studies for a general rate case proceeding.
Liberty Utilities (The Empire District Electric Company)	02/2023	Arkansas Public Service Commission	Docket No. 22-085-U	Sponsored testimony supporting the class cost of service, rate design, bill impact studies, and revenue decoupling for a general rate case proceeding.
Confluence Rivers Utility Operating Company	12/2022	Missouri Public Service Commission	Case No. WR-2023-0006/ SR-2023-0007	Sponsored testimony supporting the rate design and bill impact studies for a general rate case proceeding.
Rappahannock Electric Cooperative	10/2022	Virginia State Corporation Commission	Case No. PUR-2022-00160	Sponsored report and studies related to revenue requirements, class cost of service, rate design,

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				and bill impact analysis for a streamlined application to increase base rates.
Bear Valley Electric Service, Inc.	10/2022	California Public Utilities Commission	Application No. 22-08-010	Sponsored testimony supporting marginal cost study, rate design and bill impact analysis for a general rate case proceeding.
Southwest Gas Corporation	12/2021	Arizona Corporation Commission	Docket No. G-01551A-21-0368	Sponsored testimony supporting class cost of service, rate design and bill impact analysis for a general rate case proceeding.
Southwest Gas Corporation	09/2021	Nevada Public Utilities Commission	Docket No. 21-09001	Sponsored testimony supporting the class cost of service, rate design, bill impact and Lead/Lag studies for a general rate case proceeding.
The Empire District Gas Company	08/2021	Missouri Public Service Commission	Docket No. GR-2021-0320	Sponsored testimony supporting the class cost of service, rate design, bill impact and lead-lag studies for a general rate case proceeding.
The Empire District Electric Company	05/2021	Missouri Public Service Commission	Docket No. ER-2021-0312	Sponsored testimony supporting the class cost of service, rate design, bill impact and lead-lag studies for a general rate case proceeding.
The Empire District Electric Company	02/2021	Corporation Commission of Oklahoma	Cause No. PUD 202100163	Sponsored testimony supporting the class cost of service, rate design, bill impact and Lead/Lag studies for a general rate case proceeding. The proposed rate design included a three-year phase-in of the proposed rate increase.
Lansing Board of Water & Light and Michigan State University	04/2020	Michigan Public Service Commission	Docket No. U-20650	Sponsored testimony evaluating Consumer Energy's cost of service and rate design proposals.
Southwest Gas Corporation	02/2020	Nevada Public Utilities Commission	Docket No. 20-02023	Sponsored testimony supporting the class cost of service, rate design, bill impact and Lead/Lag studies for a general rate case proceeding.
Southwest Gas Corporation (Southern California, Northern California and South Lake Tahoe jurisdictions)	08/2019	California Public Utilities Commission	Docket No. A.19-08-015	Sponsored testimony on behalf of three separate rate jurisdictions related to: revenue requirements, lead-lag/ cash working capital, and class cost of service, rate design and bill impact analysis for a general rate case proceeding.
The Empire District Electric Company	08/2019	Missouri Public Service Commission	Docket No. ER-2019-0374	Sponsored testimony supporting the cost of service, rate design, bill impact and lead-lag studies for a general rate case proceeding. The testimony also included proposals for a weather normalization mechanism.
Lansing Board of Water & Light and Michigan State University	04/2019	Michigan Public Service Commission	Docket No. U-20322	Sponsored testimony evaluating Consumer Energy's cost of service and rate design proposals.
The Empire District Electric Company	03/2019	Corporation Commission of Oklahoma	Cause No. PUD 201800133	Sponsored testimony supporting the cost of service, rate design, bill impact and Lead/Lag studies for a general rate case proceeding.
The Empire District Electric Company	12/2018	Kansas Corporation Commission	Docket No. 19-EPDE-223-RTS	Sponsored testimony supporting cost of service, rate design, bill impact and lead-lag studies for a general rate case proceeding.
Liberty Utilities (Pine Bluff Water)	10/2018	Arkansas Public Service Commission	Docket No. 18-027-U	Sponsored testimony supporting the cost of service, rate design and bill impact studies for a general rate case proceeding.

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Midland Cogeneration Ventures, LLC	09/2018	Michigan Public Service Commission	Docket No. U-18010	Sponsored testimony evaluating Consumer Energy's cost of service and rate design proposals.
Liberty Utilities (Midstates Natural Gas)	09/2017	Missouri Public Service Commission	Docket No. GR-2018-0013	Sponsored testimony supporting the cost of service, rate design, bill impact and lead-lag studies for a general rate case proceeding. The testimony also included proposals for a revenue decoupling/ weather normalization mechanism as well as tracker accounts for certain O&M expenses and capital costs.
Missouri Gas Energy	04/2017	Missouri Public Service Commission	Docket No. GR-2017-0216	Sponsored testimony supporting the cost of service, rate design, bill impact and Lead/Lag studies for a general rate case proceeding. The testimony included support for a decoupling mechanism.
Laclede Gas Company	04/2017	Missouri Public Service Commission	Docket No. GR-2017-0215	Sponsored testimony supporting the cost of service, rate design, bill impact and Lead/Lag studies for a general rate case proceeding. The testimony included support for a decoupling mechanism.
Liberty Utilities (Midstates Natural Gas)	07/2016	Illinois Commerce Commission	Docket No. 16-0401	Sponsored testimony supporting the cost of service, rate design and bill impact studies for a general rate case proceeding. The testimony includes proposal for new commercial classes and a decoupling mechanism.
Liberty Utilities (Midstates Natural Gas)	07/2016	Iowa Utilities Board	Docket No. RPU-2016-0003	Sponsored testimony supporting the cost of service, rate design and bill impact studies for a general rate case proceeding. The testimony includes proposal for new commercial classes.
Sandpiper Energy, a Chesapeake Utilities company	12/2015	Maryland Public Service Commission	Case No. 9410	Sponsored testimony supporting the cost of service, rate design and bill impact studies for a general rate case proceeding. The testimony includes proposal for new residential and commercial classes.
Providence Gas Company	04/1997	Rhode Island Public Utilities Commission	Docket No. 2552	Sponsored testimony supporting the rate design, customer bill impact studies and retail access tariffs for commercial and industrial customers, including redesign of cost of gas adjustment clause, for a rate design proceeding.
Providence Gas Company	02/1996	Rhode Island Public Utilities Commission	Docket No. 2374	Sponsored testimony supporting the rate design, customer bill impact studies and retail access tariffs for largest commercial and industrial customers for a rate design proceeding.
Providence Gas Company	01/1996	Rhode Island Public Utilities Commission	Docket No. 2076	Sponsored testimony supporting the rate reclassification of customers into new rate classes, rate design (including introduction of demand charges), and customer bill impact studies for a rate design proceeding.
Boston Gas	03/1990	Massachusetts Department of Public Utilities	Docket No. DPU 90-55	Sponsored testimony supporting the weather and other cost of service adjustments, rate design and customer bill impact studies for a general rate case proceeding.

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Boston Gas	03/1988	Massachusetts Department of Public Utilities	Docket No. DPU 88-67-II	Sponsored testimony supporting the rate reclassification of commercial and industrial customers for a rate design proceeding.
<b>Lead/Lag Study / Cost Analysis</b>				
Liberty Utilities (Missouri Water)	03/24	Missouri Public Service Commission	Docket No. WR-2024-0104	Sponsored testimony supporting lead-lag study for a general rate case proceeding.
Southwest Gas Corporation	02/2024	Arizona Corporation Commission	Docket No. G-01551A-23-0341	Sponsored testimony supporting class cost of service, rate design and bill impact analysis for a general rate case proceeding.
Elizabethtown Gas Company	02/2024	New Jersey Board of Public Utilities	Docket No. GR24020158	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
Colorado Natural Gas (Summit Utilities)	01/2024	Colorado Public Utilities Commission	Proceeding No. 23A-0570G	Sponsored the Fully Distributed Cost (FDC) study in support of a Cost Assignment and Allocation Manual (CAAM) application.
CenterPoint Energy – Texas Gas Division	10/2023	Railroad Commission of Texas	Case No. 00015513	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
Texas Gas Service Company – Rio Grande Valley Service Area	06/2023	Railroad Commission of Texas	Case No. 00014399	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
American Electric Power - Appalachian Power Company	03/2023	Virginia State Corporation Commission	Case No. PUR-2023-00002	Sponsored testimony supporting the Lead/Lag study for the 2023 triennial review of base rates, terms, and conditions.
Texas Gas Service Company – West Texas, North Texas, and Borger/ Skellytown Service Areas	06/2022	Railroad Commission of Texas	Case No. 00009896	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
South Jersey Gas Company	04/2022	New Jersey Board of Public Utilities	Docket No. GR22040253	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
Nova Scotia Power	01/2022	Nova Scotia Utility and Review Board	Matter No. M10431	Sponsored evidence supporting the cash working capital requirement and lead/Lag study for a general rate case proceeding.
Elizabethtown Gas Company	12/2021	New Jersey Board of Public Utilities	Docket No. GR21121254	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
Cook Inlet Natural Gas Storage Alaska, LLC	07/2021	Regulatory Commission of Alaska	Docket No. U-21-058	Sponsored testimony supporting the lead-lag study/cash working capital requirement for a general rate case proceeding.
Liberty Utilities (CalPeco Electric)	05/2021	California Public Utilities Commission	Application No. 21-05-017	Sponsored testimony supporting the lead-lag study/cash working capital, marginal cost study, rate design and bill impact analysis for a general rate case proceeding.
Spire Missouri, Inc.	12/2020	Missouri Public Service Commission	Docket No. GR-2021-0108	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
South Jersey Gas Company	03/2020	New Jersey Board of Public Utilities	Docket No. GR20030243	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
American Electric Power - Appalachian Power Company	03/2020	Virginia State Corporation Commission	Case No. PUR-2020-00015	Sponsored testimony supporting the Lead/Lag study for the 2020 triennial review of base rates, terms and conditions.

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Texas Gas Service Company – Central Texas and Gulf Coast Service Areas	12/2019	Railroad Commission of Texas	GUD No. 10928	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
CenterPoint Energy – Beaumont/ East Texas Division	11/2019	Railroad Commission of Texas	GUD No. 10920	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
Elizabethtown Gas Company	04/2019	New Jersey Board of Public Utilities	Docket No. GR19040486	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
CenterPoint Energy Houston Electric, LLC	04/2019	Public Utility Commission of Texas	Docket No. 49421	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
Texas Gas Service Company – Borger/ Skellytown Service Area	08/2018	Railroad Commission of Texas	GUD No. 10766	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
Texas Gas Service Company – North Texas Service Area	06/2018	Railroad Commission of Texas	GUD No. 10739	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
CenterPoint Energy – South Texas Division	11/2017	Railroad Commission of Texas	GUD No. 10669	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
Texas Gas Service Company – Rio Grande Valley Service Area	06/2017	Railroad Commission of Texas	GUD No. 10656	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
Atmos Pipeline – Texas	01/2017	Railroad Commission of Texas	GUD No. 10580	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
CenterPoint Energy – Texas Gulf Division	11/2016	Railroad Commission of Texas	GUD No. 10567	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
Pivotal Utility Holdings, Inc. d/b/a Elizabethtown Gas Company	08/2016	New Jersey Board of Public Utilities	Docket No. GR16090826	Sponsored testimony supporting the Lead/Lag study for a general rate case proceeding.
ENSTAR Natural Gas Company	06/2016	Regulatory Commission of Alaska	Docket No. U-16-066	Adopted testimony and sponsored Lead/Lag study for a general rate case proceeding.
Liberty Utilities d/b/a Granite State Electric Company	04/2016	New Hampshire Public Utilities Commission	Docket No. DE 16-383	Adopted testimony and sponsored Lead/Lag study for a general rate case proceeding.
<b><i>Demand Forecast / Resource Planning / Forecast and Supply Planning</i></b>				
Liberty Utilities (New England Gas Company)	08/2020	Massachusetts Department of Public Utilities	Docket No. DPU 20-92	Sponsored the Long-Range Forecast and Supply Plan filing for the five-year forecast period 2018/2019 through 2022/2023.
Liberty Utilities (New England Gas Company)	07/2018	Massachusetts Department of Public Utilities	Docket No. DPU 18-68	Sponsored the Long-Range Forecast and Supply Plan filing for the five-year forecast period 2018/2019 through 2022/2023.
Liberty Utilities (New England Gas Company)	07/2016	Massachusetts Department of Public Utilities	Docket No. DPU 16-109	Sponsored the Long-Range Forecast and Supply Plan filing for the five-year forecast period 2016/2017 through 2020/2021.
Providence Gas Company	08/2000	Rhode Island Public Utilities Commission	Docket No. 2581	Sponsored testimony supporting the extension of a rate plan that began in 1997 and included



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				certain modifications, including a weather normalization clause.
Providence Gas Company	11/1992	Rhode Island Public Utilities Commission	Docket No. 2025	Sponsored testimony supporting the Integrated Resource Plan filing, including a performance-based incentive mechanism.
<b>Alternative Rate Mechanisms</b>				
Toronto Hydro-Electric System Limited	11/2023	Ontario Energy Board	Docket No. EB-2023-0195	Sponsored evidence supporting Toronto Hydro's Custom Rate Framework. Prepared research and analysis evaluating the appropriateness of the Rate Framework in the context of how other electric utility ratemaking practices have responded to developments in the energy industry.
Trans-Northern Pipelines, Inc.	06/2023	Commission of Canada Energy Regulator	Docket No. RH-001-2023	Sponsored evidence related to application for approval of incentive tolls.
Ameren Illinois Company d/b/a Ameren Illinois	01/2023	Illinois Commerce Commission	Docket No. 22-0487	Sponsored testimony supporting a Multi-Year Integrated Grid Plan (Grid Plan). Prepared research and analysis evaluating the reasonableness of the Grid Plan through comparison to how other electric utilities have responded to the changing energy landscape.
Berkshire Gas Company, Eversource Energy, Liberty Utilities, National Grid, and Unitil	03/2022	Massachusetts Department of Public Utilities	Docket No. DPU 20-80	Sponsored report that summarizes research, findings, and recommendations for regulatory mechanisms, methodologies, and policies that support Massachusetts's achievement of its net zero climate goal by 2050. The regulatory designs were informed by the results of quantitative and qualitative analysis of decarbonization pathways to achieve the Commonwealth's climate goals.
Northern States Power Company (XcelEnergy)	10/2021	Minnesota Public Utilities Commission	Docket No. E002/GR-21-630	Sponsored testimony supporting a Return on Equity (ROE) adjustment mechanism that would allow the Company to symmetrically adjust its ROE to reflect significant changes in financial market conditions.
Unitil (Northern Utilities, Inc.)	08/2021	New Hampshire Public Utilities Commission	Docket No. DG 21-104	Sponsored testimony supporting a revenue decoupling mechanism.
Unitil Energy Systems, Inc.	04/2021	New Hampshire Public Utilities Commission	Docket No. DE 21-030	Sponsored testimony supporting a revenue decoupling mechanism.
Unitil Energy Systems, Inc.	04/2021	New Hampshire Public Utilities Commission	Docket No. DE 21-030	Sponsored testimony supporting proposed revenue decoupling mechanism and associated tariff.
Maine Water Comp/any	03/2021	Maine Public Utilities Commission	Docket No. 2021-00053	Sponsored testimony supporting a proposed rate smoothing mechanism.

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Ontario Energy Association	01/2021	Commission of Canada Energy Regulator	Docket No. EB-2020-0133	Sponsored evidence regarding policies and ratemaking treatment related to COVID-19 costs in U.S. and Canadian regulatory jurisdictions. The evidence was used to support Ontario Energy Association's response to Staff's proposals
Northern Utilities, Inc. d/b/a Unitil	06/2019	Maine Public Utilities Commission	Docket No. 2019-00092	Sponsored testimony supporting a proposed capital investment cost recovery mechanism.
Northern Utilities, Inc. d/b/a Unitil	06/2015	Maine Public Utilities Commission	Docket No. 2015-00146	Sponsored testimony supporting the proposed gas expansion program, including a zone area surcharge.
Yankee Gas Company	07/2014	Connecticut Public Utilities Regulatory Authority	Docket No. 13-06-02	Sponsored report and testimony supporting the review and evaluation of gas expansion policies, procedures and analysis.
Providence Gas Company	03/2000	Rhode Island Public Utilities Commission	Docket No. 3100	Sponsored testimony supporting the de-tariff and deregulation of appliance repair service, enabling the Company to have needed pricing flexibility.
Providence Gas Company	08/2001 09/2000 08/1996	Rhode Island Public Utilities Commission	Docket No. 1673	Sponsored testimony supporting the changes in cost of gas adjustment factor related to projected under-recovery of gas costs; Filed testimony and witness for pilot hedging program to mitigate price risks to customers; Filed testimony and witness for changes in cost of gas adjustment factor related to extension of rate plan.
Providence Gas Company	06/1997	Rhode Island Public Utilities Commission	Docket No. 2581	Sponsored testimony supporting a rate plan that fixed all billing rates for three-year period; included funding for critical infrastructure investments in accelerated replacement of mains and services, digitized records system, and economic development projects.
Boston Gas	10/1993	Massachusetts Department of Public Utilities	Docket No. DPU 92-230	Sponsored testimony describing the Company's position regarding rate treatment of vehicular natural gas investments and expenses.
Vermont Gas Systems	12/2012	Vermont Public Utilities Commission	Docket No. 7970	Sponsored testimony describing the market served by \$90 million natural gas expansion project to Addison County, VT. Also described the terms and economic benefits of a special contract with International Paper.
Vermont Gas Systems	02/2011	Vermont Public Utilities Commission	Docket No. 7712	Sponsored testimony supporting the market evaluation and analysis for a system expansion and reliability regulatory fund.
<b>Revenue Requirements</b>				
The Empire District Electric Company	04/2017	Corporation Commission of Oklahoma	Cause No. PUD 201600468	Adopted direct testimony and sponsored rebuttal testimony supporting the revenue requirements for a general rate case proceeding. The testimony included proposals for alternative ratemaking mechanisms.