



## Daniel E. Peaco

Principal Consultant

### SUMMARY

Daniel Peaco is a Principal Consultant, Chairman, and Past-President at Daymark Energy Advisors, a leading provider of integrated policy, planning and strategic decision support services to the North American electric and natural gas industries.

Mr. Peaco has 35 years of experience in the electric industry, both as a utility planning practitioner and, for the past 20 years, as a consultant to the industry. His consulting practice has included engagements relating to strategic planning, competitive electric markets, integrated resource planning evaluation of generation asset investments, renewable energy policy, transmission planning, competitive procurement and power contracts, and industry restructuring.

Prior to joining Daymark Energy Advisors, he held management and planning positions in power supply planning at Central Maine Power, CMP International Consultants, Pacific Gas & Electric, and the Massachusetts Energy Facilities Siting Council. He holds degrees from M.I.T. and Dartmouth College.

### EMPLOYMENT HISTORY

|   |                          |
|---|--------------------------|
| <b>Daymark Energy Advisors, Inc.</b>                                      | <i>Boston, MA</i>        |
| <i>Chairman</i>   | Aug 2015-current         |
| <i>President</i>  | 2002-July 2015           |
| <i>Managing Director</i>  | 1996-2002                |
| <b>Central Maine Power Company</b>  | <i>Augusta, ME</i>       |
| <i>Manager, Industrial Marketing and Economic Development</i>             | 1995-96                  |
| <i>Principal, CMP International Consultants</i>                           | 1993-95                  |
| <i>Director, Power Supply Planning</i>                                    | 1987-93                  |
| <i>Power Supply Planning Analyst</i>                                      | 1986-87                  |
| <b>Pacific Gas &amp; Electric Company</b>                                 | <i>San Francisco, CA</i> |
| <i>Power Supply Planning, Hydropower Planning, Cogeneration Contracts</i> | 1981-86                  |
| <b>Massachusetts Energy Facilities Siting Council</b>                     | <i>Boston, MA</i>        |
| <i>Planning Engineer</i>  | 1978-79                  |

### EDUCATION

|   |                      |
|---|----------------------|
| <b>Thayer School of Engineering, Dartmouth College</b>                  | <i>Hanover, NH</i>   |
| <i>M.S. in Engineering Sciences, Resource Systems and Policy Design</i> | 1981                 |
| <b>Massachusetts Institute of Technology</b>                            | <i>Cambridge, MA</i> |
| <i>B.S. in Civil Engineering, Water Resource Systems</i>                | 1977                 |

## PUBLICATIONS, PRESENTATIONS & CONFERENCES

*Independent Expert Consultant Report: Export Pricing and Revenues Review*; Confidential Report prepared for the Manitoba Public Utilities Board regarding Manitoba Hydro's 20 year forecast of its export revenues submitted in its 2017/18 and 2018/19 General Rate Application, November 16, 2017. Lead Consultant and Principal Author.

*The Opportunities and Risks for Developing Energy Infrastructure in New England (2017-2022)*; presentation provided at the Inaugural Pierce Atwood Energy Infrastructure Symposium, October 20, 2017.

*Natural Gas in Power Generation*; presentation provided at the 5<sup>th</sup> Annual Natural Gas Conference Natural Gas: Powering Maine's Future, September 28, 2017.

*NECEC Transmission Project: Benefit to Maine Ratepayers*, Report prepared for Central Maine Power regarding the benefits accruing to Maine ratepayers of the New England Clean Energy Connection, 1200 MW HVDC transmission expansion accompanied by 1090 MW of hydropower and wind energy project development offered in the Massachusetts RFP for Clean Energy Resources, September 27, 2017. Lead Consultant and Principal Author.

*MCPC Project Benefits; Quantitative and Qualitative Benefits*, Confidential Report prepared for Central Maine Power regarding the benefits of the Maine Clean Power Connection, a 345 kV transmission expansion accompanied by 1100 MW of wind energy project development offered in the Massachusetts RFP for Clean Energy Resources, July 27, 2017. Lead Consultant and Principal Author.

*NECEC Project Benefits; Quantitative and Qualitative Benefits*, Confidential Report prepared for Central Maine Power and H.Q. Energy Services regarding the benefits of the New England Clean Energy Connection, 1200 MW HVDC transmission expansion accompanied by 1090 MW of hydropower and wind energy project development offered in the Massachusetts RFP for Clean Energy Resources, July 27, 2017. Lead Consultant and Principal Author.

*Evolving Practices in Electric Company Resource Planning: Key Insights from a Review of 15 Recent Electric Company Resource Plans*, report prepared for the Electric Power Research Institute. May 2017. Lead Consultant and Principal Author.

*Clean Energy Procurement Mechanisms*, instructor for Post-Conference Workshop at the EUCI 3<sup>rd</sup> Annual U.S./Canada Cross-Border Energy Trade Summit, Boston, Massachusetts, March 2, 2017.

*CHP Economic Factors: Electric and Natural Gas Market Trends*, keynote presentation for the Efficiency Maine Combined Heat & Power Conference, Portland, Maine, September 29, 2016.

*Changes in IRP in Market Transitions, Where Has It Happened?*, presentation to the EUCI 16<sup>th</sup> Annual Integrated Resource Planning Conference, Long Beach, March 22, 2016.

*MREI Project Benefits; Direct, Indirect, Qualitative and Other Benefits*, prepared for Central Maine Power Company and Emera Maine regarding the benefits of the Maine Renewable Energy Initiative, a 345 kV transmission expansion accompanied by 1200 MW of wind energy project development. January 28, 2016. Lead Consultant and Principal Author.

*MCPC Project Benefits; Direct, Indirect, Qualitative and Other Benefits*, prepared for Central Maine Power Company regarding the benefits of the Maine Clean Power Connection, a 345 kV transmission expansion accompanied by nearly 600 MW of wind energy project development. January 28, 2016. Lead Consultant and Principal Author.

*Independent Valuation Opinion for the Bellows Falls Station in the Town of Rockingham, VT*, prepared for the TransCanada Hydro regarding the value of a 49 MW hydropower asset. July 2013 (Updated April 2015). Lead Consultant and Principal Author.

*Review of Georgia Power Company Solar Projects at Forts Benning, Stewart, and Gordon*, Report for the Georgia Public Service Commission. October 14, 2014. Lead Consultant and Principal Author.

*Maine Power Connection: Analysis of Benefits in Maine and New England*, Report for Central Maine Power. September 5, 2014. Lead Consultant and Principal Author.

*Need For and Alternative To (NFAT) Review of Manitoba Hydro's Proposal for the Keeyask and Conawapa Generating Stations*, Initial Expert Analysis Report prepared for the Manitoba Public Utilities Board. January 24, 2014. Supplemental Report. February 28, 2014. Lead Consultant and Principal Author.

*Evaluation of the Transaction to Transfer the Entergy Corp. Transmission Business to ITC Holdings, Inc.*, Initial Report prepared for the General Staff of the Arkansas Public Service Commission. April 19, 2013. Lead Consultant and Principal Author.

*Regarding Tri-State G&T's Cost to Serve Its Nebraska Loads and the Nebraska Power Supply Issues Group Loads*, prepared for the Nebraska Power Supply Issues Group, two public power districts and two member-owned electric utilities in Western Nebraska. December 2012. Lead Consultant and Principal Author.

*Independent Valuation Opinion for the Vernon Station in the Town of Hinsdale, NH*, prepared for the TransCanada Hydro regarding the value of a 32 MW hydropower asset. November 2012. Lead Consultant and Principal Author.

*Independent Valuation Opinion for the Comerford and McIndoes Stations in the Town of Monroe, NH*, prepared for the TransCanada Hydro regarding the value of 179 MW hydropower assets. November 2012. Lead Consultant and Principal Author.

*Independent Opinion Regarding the Market Value of Brassua Hydro LP Assets*, prepared for the Owners of Brassua Dam regarding the value of a 4 MW hydropower asset. November 2012. Lead Consultant and Principal Author.

*Independent Opinion Regarding Amortization Reserve of Brassua Hydro LP*, prepared for the Owners of Brassua Dam regarding the amortization reserve value of a 4 MW hydropower asset. November 2012. Lead Consultant and Principal Author.

*Regional Framework for Non-Transmission Alternatives*, Report prepared for the New England States Committee on Electricity. October 2012. Lead Consultant and Principal Author.

*Renewable Energy and Energy Efficiency Portfolio Standards(REPS) And Sustainable Energy in North Carolina, Lessons from the 2011 Energy Policy Committee Study*, presentation to the 9<sup>th</sup> Annual Sustainable Energy Conference, Raleigh, North Carolina April 20, 2012.

*Transmission Planning for the Next Generation, Some Implications for Generators in the New England Region of FERC Order 1000*, presentation to the Connecticut Power and Energy Society's Energy, Environment, and Economic Development Conference, Cromwell, Connecticut March 14, 2012.

*Entergy Arkansas, Inc.'s Withdrawal from the Entergy System Agreement, Response to EAI's Analysis of All Strategic Options*, Supplemental Initial Report prepared for the General Staff of the Arkansas Public Service Commission. July 12, 2011. Lead Consultant and Principal Author.

*North Carolina's Renewable Energy Policy, A Look at REPS Compliance To Date, Resource Options for Future Compliance, and Strategies to Advance Core Objectives*, prepared for the North Carolina Energy Policy Council. June 2011. Lead Consultant and Co-Author.

*Energy Policy Implementation, Framework Overview: Paying for the Policies*, presentation to the NECA/CPES 18<sup>th</sup> Annual New England Energy Conference, Groton, Connecticut, May 18, 2011.

*Entergy Arkansas, Inc.'s Withdrawal from the Entergy System Agreement*, Initial Report prepared for the General Staff of the Arkansas Public Service Commission. February 11, 2011. Lead Consultant and Principal Author.

*Non-Transmission Alternatives Assessment for the Lewiston-Auburn Area*, Report for Central Maine Power. August 27, 2010. Co-Author.

*Emerging Regional Energy Issues, How RPS Requirements will Affect Vermont's Energy Future*, presentation to the Vermont's Renewable Energy Future Conference, Burlington, Vermont October 1, 2010.

*2010 Comprehensive Plan for the Procurement of Energy Resources*, Report prepared for the Connecticut Energy Advisory Board. April 27, 2010. Lead Consultant and Principal Author.

*Phase I Report: Assessment of Energy Supply Options for the Town of Millinocket*, report to the Town of Millinocket, Maine. December 18, 2009. Lead Consultant and Principal Author.

*2009 Comprehensive Plan for the Procurement of Energy Resources*, Report prepared for the Connecticut Energy Advisory Board. May 1, 2009. Lead Consultant and Principal Author.

*Evaluation of the Grid Solar Proposal, Review of the Economics of the Proposal as an Alternative to the Maine Power Reliability Program*, Report prepared for Central Maine Power. April 3, 2009. Lead Consultant and Principal Author.

*An Analysis of the Connecticut Light and Power Company's Proposed Greater Springfield Reliability Project and Manchester to Meekville Project and the Non-Transmission Project Proposed as Alternatives*, Report prepared for the Connecticut Energy Advisory Board. February 17, 2009. Lead Consultant and Principal Author.

*Preparing A State-Centric IRP in a Multi-State Power Market*, presentation to the EUCI Conference on Resource and Supply Planning, Scottsdale, Arizona, February 11, 2009.

*Resource Considerations of Transmission Planning*, half-day workshop presented to the EUCI Conference on Resource and Supply Planning, Scottsdale, Arizona, February 11, 2009.

*2008 Comprehensive Plan for the Procurement of Energy Resources*, Report prepared for the Connecticut Energy Advisory Board. August 1, 2008. Lead Consultant and Principal Author.

*Maine Power Reliability Project: Non-Transmission Alternatives Assessment and Economic Evaluation*, Report for Central Maine Power. June 30, 2008. Lead Consultant and Principal Author.

*Maine Power Connection: Locational Marginal Price and Production Cost Implications in Maine and New England*, Report for Central Maine Power and Maine Public Service Company. June 30, 2008. Lead Consultant and Principal Author.

*Impact of Aroostook Wind Energy on New England Renewable Energy Certificate Market*, Report for Horizon Wind Energy. June 25, 2008. Lead Consultant.

*Initial Review of Integrated Resource Plan for Connecticut*, Report for the Connecticut Energy Advisory Board. January 28, 2008. Lead Consultant and Principal Author.

*Connecticut's Long-Term Electric Capacity Requirements*, Report of the Connecticut Energy Advisory Board. April 7, 2006. Lead Consultant and Principal Author.

*Technical Audit – Phase III: Review of Increase in Fuel Component of Power Budget FY 2007 relative to FY 2006*, prepared for the New Brunswick Power Distribution and Customer Service Corp., October 5, 2005. Lead Consultant and Principal Author.

*Preliminary Assessment of Connecticut's Electric Supply and Demand: Near Term Requirements for Reliability and Mitigation of Federally Mandated Congestion Charges*, The Connecticut Energy Advisory Board. September 2, 2005. Lead Consultant and Principal Author.

*Technical Audit – Phase II: Review of Increase in Fuel Component of Power Budget FY 2006 relative to FY 2005*, prepared for the New Brunswick Power Distribution and Customer Service Corp., July 7, 2005. Lead Consultant and Principal Author.

*Technical Audit: Purchased Power Budget April 2005 – March 2006*, prepared for the New Brunswick Power Distribution and Customer Service Corp., May 18, 2005. Lead Consultant and Principal Author.

*Retail Choice Study: Issues and Options for Electric Generation Service*, the Belmont Electricity Supply Study Committee, Belmont, Massachusetts. June 2, 2004. Lead Consultant and Principal Author.

*California Energy Markets: The State's Position Has Improved, Due to Efforts by the Department of Water Resources and Other Factors, but Cost Issues and Legal Challenges Continue*, California Bureau of State Audits, April 2, 2003. Lead Consultant and a Principal Author.

*California Energy Markets: Pressures Have Eased, but Cost Risks Remain*, California Bureau of State Audits, December 21, 2001. Lead Consultant and a Principal Author.

*Development of Competition in Electric Markets and the Impact on Retail Consumers in Arkansas, Arkansas General Staff's Report*, In The Matter of a Progress Report to the Arkansas General Assembly on the Development of Competition in Electric Markets and the Impact, if any, on Retail Consumers, Docket No. 00-190-U, September 4, 2001. Principal Author.

*Preliminary Market Value Assessment of PP&L Maine Hydroelectric Plants*, August 2001. Proprietary report prepared for American Rivers, the Atlantic Salmon Federation, the Natural Resources Council of Maine, the Penobscot Indian Nation, and Trout Unlimited. Principal Author.

*Development of Competition in Electric Markets and the Impact on Retail Consumers in Arkansas, Arkansas General Staff's Report*, In The Matter of a Progress Report to the Arkansas General Assembly on the Development of Competition in Electric Markets and the Impact, if any, on Retail Consumers, Docket No. 00-190-U, September 29, 2000. Principal Author.

*Wholesale Market Development: Timing and Issues Survey of Activity in Other Regions, FERC Initiatives,* In The Matter of a Progress Report to the Arkansas General Assembly on the Development of Competition in Electric Markets and the Impact, if any, on Retail Consumers, Docket No. 00-190-U, September 29, 2000. Principal Author.

*Retail Market Development: Timing and Issues Survey of Other States,* In The Matter of a Progress Report to the Arkansas General Assembly on the Development of Competition in Electric Markets and the Impact, if any, on Retail Consumers, Docket No. 00-190-U, September 29, 2000. Principal Author.

*The Progression toward Retail Competition in Arkansas' Neighboring States,* In The Matter of a Progress Report to the Arkansas General Assembly on the Development of Competition in Electric Markets and the Impact, if any, on Retail Consumers, Docket No. 00-190-U, September 29, 2000. Principal Author.

*Arkansas General Staff Proposal and Initial Comments, In The Matter of a Generic Proceeding to Establish Uniform Policies and Guidelines for a Standard Service Package,* Docket No. 00-148-R, June 13, 2000. Principal Author.

*Arkansas General Staff Initial Comments, In The Matter of a Generic Proceeding to Determine if Metering, Billing, and Other Services Are Competitive Services,* Docket No. 00-054-U, March 31, 2000. Principal Author.

*Arkansas General Staff Initial Comment and Proposed Market Power Analysis Minimum Filing Requirements, In The Matter of a Generic Proceeding to Establish Filing Requirements and Guidelines Applicable to Market Power Analyses,* Docket No. 00-048-R, March 28, 2000. Contributing Author.

*Vermont Electricity Prices: Regional Competitiveness Outlook; Implications of Restructuring in New England and New York,* February 2000 Edition, prepared for Central Vermont Public Service. Principal Author.

*Projected Retail Price of Electricity for Massachusetts Electric Company, Boston Edison Company, and Western Massachusetts Electric Company,* September 1999, prepared for Massachusetts Municipal Wholesale Electric Company. Principal Author.

*Comments of the Commonwealth of Massachusetts Division of Energy Resources, in the Investigation by the Department of Telecommunication and Energy into Pricing and Procurement of Default Service,* July 1999 (Initial and Reply Comments). Contributing Author.

*Need for Power Supply: The New England Power Pool and the State of Rhode Island,* March 1999, prepared for Indeck – North Smithfield Energy Center.

*Vermont Electricity Prices: Regional Competitiveness Outlook; Implications of Restructuring in Northeast States,* a Report to the Working Group on Vermont's Electricity Future, November 1998, prepared for Central Vermont Public Service. Principal Author.

## EXPERT TESTIMONY

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|--|---|---|
| Public Service<br>Commission of Utah<br>Docket No. 17-035-39             | Division of Public Utilities<br>Department of Commerce                    | Expert testimony regarding PacifiCorp's application for pre-approval of its proposed repowering of 999 MW of existing wind turbines, including issues regarding PTC qualification, economic benefits analysis, and project risks.   |
|  |   | Prefiled Testimony                      September 20, 2017<br>Surrebuttal Testimony                      November 15, 2017  |
| Superior Court<br>Windham Unit<br>State of Vermont                       | TransCanada Hydro<br>Northeast, Inc.                                      | Expert testimony regarding the headwater benefits value of Moore Station, a 190 MW hydropower facility in appeal of appraised value in the Town of Waterford, Vermont.  |
|  |   | Valuation Report                      November 11, 2016<br>Deposition testimony                      December 13, 2016  |
| Superior Court<br>Windham Unit<br>State of Vermont                       | TransCanada Hydro<br>Northeast, Inc.                                      | Expert testimony regarding the valuation of a Harriman Station, a hydropower facility (39 MW) in appeal of appraised values in the town of Whitingham, VT.  |
| Docket No. 413-9-13 Wmcv   |   | Valuation Report                      September 19, 2016<br>Deposition                      November, 2016  |
| Massachusetts Energy<br>Facilities Siting Board<br>Docket No. EFSB 15-06 | NRG Energy<br>NRG Canal 3 Development LLC                                 | Testimony regarding NRG's application for siting approval of a proposed 350 MW dual-fueled combustion turbine. Testimony addressed alternative technology assessment and consistency with energy and environmental policies of the Commonwealth, considering reliability, regional fuel diversity, global warming solutions policy, and renewable energy integration. |
|  |   | Direct Testimony                      December 2, 2015<br>Pre-filed Testimony                      April 4, 2016<br>Oral Testimony                      September 9 & 14, 2016  |
| Georgia Public<br>Service Commission<br>Docket No. 40161                 | Georgia Public<br>Service Commission<br>Public Interest<br>Advocacy Staff | Witness sponsoring testimony regarding integrated resource planning methods, renewable energy economics and policy, fuel diversity considerations in resource planning.   |
|  |   | Written Testimony                      May 6, 2016<br>Oral Testimony                      May 18, 2016  |
| Superior Court<br>Windham Unit<br>State of Vermont                       | TransCanada Hydro<br>Northeast, Inc.                                      | Expert testimony regarding the headwater benefits value of the Somerset Reservoir in the Deerfield River. Headwater benefits determination were raised as a key issue in the Town of Somerset's valuation of the facility for property tax assessment.  |
| Docket No. 470-10-13 Wmcv  |   | Headwater Benefits Report                      November 13, 2015<br>Deposition testimony                      February 2, 2016  |
| Superior Court<br>Windham Unit<br>State of Vermont                       | TransCanada Hydro<br>Northeast, Inc.                                      | Expert testimony regarding the valuation of a the Bellows Falls hydropower facility (49 MW) in appeal of appraised values in the town of Rockingham VT.   |
| Docket No. 547-11-12 Wmew  |   | Valuation Report                      April 23, 2015<br>Deposition                      February 4, 2014<br>Oral Testimony                      May 11, 12 and 13, 2015   |

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| Rhode Island<br>Superior Court<br>PC No. 2012-1847  | TransCanada; Ocean States<br>Power Holdings, Ltd. | Expert testimony regarding the valuation of a 540 MW<br>combined cycle power plant in appeal of an appraisal<br>conducted for the Town of Burrillville, RI. Prepared<br>analysis of unit operations and revenue forecasts.   |
|   |   | Report for 12/31/2010                      December 19, 2012<br>Report for 12/31/2011                      July 17, 2014<br>Deposition Testimony                      May 2, 2015  |
| Oklahoma<br>Corporation<br>Commission<br>Cause No. PUD 201400229  | OK Cogeneration                                   | Testimony regarding Oklahoma Gas & Electric Company<br>Application for pre-approval of its Mustang Modernization<br>Plan, addressing planning for retirement of 430 MW of<br>gas-fired steam generation and addition of 400 MW of<br>Combustion turbine generation, cost pre-approval, and<br>Requirements for competitive procurement and alternatives<br>analysis. |
|   |   | Pre-filed Testimony                      December 16, 2014<br>Oral Testimony                              March 18-19, 2015  |
| Maine Public Utilities<br>Commission<br>Docket No. 2014-048   | Central Maine Power                               | Testimony regarding CMP's application for approval<br>Maine Power Connection Transmission Project.<br>Testimony addressed economic benefits associated with<br>Interregional transmission connection and associated<br>wind energy development benefits.   |
|   |   | Expert Report                              September 5, 2014<br>Rebuttal Report                              February 27, 2015<br>Oral Testimony                              September 18, 2014<br>March 31, 2015   |
| US District Court<br>Colorado<br>Civil Action No.<br>10-CV-02349-WJM-KMT  | Nebraska Power Supply<br>Issues Group             | Expert testimony regarding Tri-State G&T cost to<br>serve five Nebraska members.   |
|   |   | Expert Report                              December 31, 2012<br>Deposition Testimony                      February 27, 2013<br>Oral Testimony                              May 19, 2014  |
| Public Utilities Board<br>Manitoba, Canada<br>Needs For and Alternatives<br>To (NFAT)   | PUB NFAT Panel                                    | Independent Expert (IE) for the review of Manitoba Hydro's<br>Hydropower and Transmission Development Plan for 2,160 MW<br>of hydro capacity at two locations, a 500 kV transmission line<br>to Minnesota, and associated export contracts.  |
|   |   | Expert Reports I                              January 24, 2014<br>Expert Reports II                              February 28, 2014<br>Oral Testimony                              April 8, 9, 10, 11, 2014   |
| Superior Court<br>State of Vermont<br><br>Docket No. 423-9-12 Wmcv<br>Docket No. 547-11-12 Wmev<br>Docket No. 244-9-12 Cacv<br>Docket No. 245-9-12 Cacv | TransCanada Hydro<br>Northeast, Inc.              | Expert testimony regarding the valuation of a four hydropower<br>facilities totaling 260 MW in appeal of appraised values in the<br>towns of Vernon, Rockingham, and Barnet VT.  |
|   |   | Valuation Report                              July 15, 2013<br>Deposition                                      February 4, 2014  |



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| <p>Arbitration<br/>AAA Case No.<br/>11 198 Y 002014 12</p>                 | <p>City of Burlington, VT<br/>Burlington Electric Dept.</p>   | <p>Expert testimony regarding the valuation of a 7 MW hydropower facility and the determination of fair value for transfer of ownership of the asset.</p>  |                     |                   |                             |                  |  |                    |                   |                   |
|  |   | <table border="0"> <tr> <td>Valuation Report</td> <td>June 21, 2013</td> </tr> <tr> <td>Rebuttal Report</td> <td>July 26, 2013</td> </tr> <tr> <td>Deposition Testimony</td> <td>September 12, 2013</td> </tr> <tr> <td>Oral Testimony</td> <td>October 4, 2013</td> </tr> </table>                            | Valuation Report    | June 21, 2013     | Rebuttal Report             | July 26, 2013    | Deposition Testimony                     | September 12, 2013 | Oral Testimony    | October 4, 2013   |
| Valuation Report   | June 21, 2013   |  |                     |                   |                             |                  |  |                    |                   |                   |
| Rebuttal Report  | July 26, 2013   |  |                     |                   |                             |                  |  |                    |                   |                   |
| Deposition Testimony   | September 12, 2013  |  |                     |                   |                             |                  |  |                    |                   |                   |
| Oral Testimony   | October 4, 2013   |  |                     |                   |                             |                  |  |                    |                   |                   |
| <p>Arkansas Public<br/>Service Commission<br/>Docket No. 12-069-U</p>      | <p>General Staff of the<br/>AK Public Service Comm.</p>   | <p>Testimony regarding the evaluation of Entergy Arkansas's proposed divestiture of its transmission business to ITC Holdings.</p>   |                     |                   |                             |                  |  |                    |                   |                   |
|  |   | <table border="0"> <tr> <td>Direct Testimony</td> <td>April 19, 2013</td> </tr> <tr> <td>Surrebuttal Testimony</td> <td>June 7, 2013</td> </tr> <tr> <td>Supplemental Testimony - Rate Mitigation</td> <td>Aug 15, 2013</td> </tr> </table>  | Direct Testimony    | April 19, 2013    | Surrebuttal Testimony       | June 7, 2013     | Supplemental Testimony - Rate Mitigation | Aug 15, 2013       |                   |                   |
| Direct Testimony   | April 19, 2013  |  |                     |                   |                             |                  |  |                    |                   |                   |
| Surrebuttal Testimony  | June 7, 2013  |  |                     |                   |                             |                  |  |                    |                   |                   |
| Supplemental Testimony - Rate Mitigation                                   | Aug 15, 2013  |  |                     |                   |                             |                  |  |                    |                   |                   |
| <p>Arbitration<br/>AAA Case No.<br/>11 153 Y 02133 11</p>                  | <p>Owners of Brassua Dam<br/>FPL Hydro Maine LLP<br/>Madison Paper Industries<br/>Merimil Ltd Partnership</p> | <p>Expert testimony regarding the valuation of a 4 MW hydropower facility and the determination of amortization reserve obligations under FERC license provisions.</p>   |                     |                   |                             |                  |  |                    |                   |                   |
|  |   | <table border="0"> <tr> <td>Valuation Report</td> <td>November 1, 2012</td> </tr> <tr> <td>Amortization Reserve Report</td> <td>November 1, 2012</td> </tr> <tr> <td>Amortization Reserve Rebuttal</td> <td>November 15, 2012</td> </tr> <tr> <td>Oral Testimony</td> <td>December 5, 2012</td> </tr> </table> | Valuation Report    | November 1, 2012  | Amortization Reserve Report | November 1, 2012 | Amortization Reserve Rebuttal            | November 15, 2012  | Oral Testimony    | December 5, 2012  |
| Valuation Report   | November 1, 2012  |  |                     |                   |                             |                  |  |                    |                   |                   |
| Amortization Reserve Report  | November 1, 2012  |  |                     |                   |                             |                  |  |                    |                   |                   |
| Amortization Reserve Rebuttal  | November 15, 2012   |  |                     |                   |                             |                  |  |                    |                   |                   |
| Oral Testimony   | December 5, 2012  |  |                     |                   |                             |                  |  |                    |                   |                   |
| <p>Arkansas Public<br/>Service Commission<br/>Docket No. 10-011-U</p>      | <p>General Staff of the<br/>AK Public Service Comm.</p>   | <p>Testimony regarding the evaluation of Entergy Arkansas's strategic reorganization options and request for authorization to transfer control of its transmission asset to the Midwest ISO.</p>   |                     |                   |                             |                  |  |                    |                   |                   |
|  |   | <table border="0"> <tr> <td>Oral Testimony</td> <td>May 31, 2012</td> </tr> <tr> <td>Surrebuttal Testimony</td> <td>April 27, 2012</td> </tr> <tr> <td>Direct Testimony</td> <td>March 16, 2012</td> </tr> </table>  | Oral Testimony      | May 31, 2012      | Surrebuttal Testimony       | April 27, 2012   | Direct Testimony                         | March 16, 2012     |                   |                   |
| Oral Testimony   | May 31, 2012  |  |                     |                   |                             |                  |  |                    |                   |                   |
| Surrebuttal Testimony  | April 27, 2012  |  |                     |                   |                             |                  |  |                    |                   |                   |
| Direct Testimony   | March 16, 2012  |  |                     |                   |                             |                  |  |                    |                   |                   |
| <p>Burrillville<br/>Board of Review</p>                                    | <p>TransCanada; Ocean States<br/>Power Holdings, Ltd.</p>   | <p>Expert testimony regarding the valuation of a 540 MW combined cycle power plant in appeal of an appraisal conducted for the Town of Burrillville, RI.</p>   |                     |                   |                             |                  |  |                    |                   |                   |
|  |   | <table border="0"> <tr> <td>Valuation Report</td> <td>January 4, 2012</td> </tr> <tr> <td>Oral Testimony</td> <td>March 1, 2012</td> </tr> </table>  | Valuation Report    | January 4, 2012   | Oral Testimony              | March 1, 2012    |  |                    |                   |                   |
| Valuation Report   | January 4, 2012   |  |                     |                   |                             |                  |  |                    |                   |                   |
| Oral Testimony   | March 1, 2012   |  |                     |                   |                             |                  |  |                    |                   |                   |
| <p>Oklahoma<br/>Corporation<br/>Commission<br/>Cause No. PUD 201100186</p> | <p>OK Corporation Commission<br/>OK Attorney General</p>  | <p>Testimony regarding a 60 MW Wind Energy Purchase Agreement and Cogeneration deferral Agreement proposed by Oklahoma Gas &amp; Electric Company, addressing cost pre-approval, and a requested waiver from competitive procurement requirements.</p>   |                     |                   |                             |                  |  |                    |                   |                   |
|  |   | <table border="0"> <tr> <td>Pre-filed Testimony</td> <td>February 8, 2012</td> </tr> </table>  | Pre-filed Testimony | February 8, 2012  |                             |                  |  |                    |                   |                   |
| Pre-filed Testimony  | February 8, 2012  |  |                     |                   |                             |                  |  |                    |                   |                   |
| <p>Arkansas Public<br/>Service Commission<br/>Docket No. 10-011-U</p>      | <p>General Staff of the<br/>AK Public Service Comm.</p>   | <p>Testimony regarding the evaluation of Entergy Arkansas's strategic reorganization options upon its exit from the Entergy System Agreement.</p>  |                     |                   |                             |                  |  |                    |                   |                   |
|  |   | <table border="0"> <tr> <td>Oral Testimony</td> <td>September 9, 2011</td> </tr> <tr> <td>Surrebuttal Testimony</td> <td>August 18, 2011</td> </tr> <tr> <td>Supplemental Initial Testimony</td> <td>July 12, 2011</td> </tr> <tr> <td>Initial Testimony</td> <td>February 11, 2011</td> </tr> </table>        | Oral Testimony      | September 9, 2011 | Surrebuttal Testimony       | August 18, 2011  | Supplemental Initial Testimony           | July 12, 2011      | Initial Testimony | February 11, 2011 |
| Oral Testimony   | September 9, 2011   |  |                     |                   |                             |                  |  |                    |                   |                   |
| Surrebuttal Testimony  | August 18, 2011   |  |                     |                   |                             |                  |  |                    |                   |                   |
| Supplemental Initial Testimony   | July 12, 2011   |  |                     |                   |                             |                  |  |                    |                   |                   |
| Initial Testimony  | February 11, 2011   |  |                     |                   |                             |                  |  |                    |                   |                   |

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| State Corporation<br>Commission of the<br>State of Kansas                         | The Landowner Group   | Testimony regarding the application of ITC Great Plains<br>for a siting permit for a 345-kV Transmission Line addressing<br>project need and route selection methodology.  |
|   |   | Initial Testimony April 18, 2011   |
| Federal Energy<br>Regulatory Commission<br>(FERC)<br>RM10-23-000                  | Maine Public Utilities<br>Commission, et. al.                             | Expert Affidavit regarding economic analysis<br>methodology for transmission project evaluation.<br>Provided in reply comments on the FERC Transmission<br>Planning and Cost Allocation NOPR.  |
|   |   | Affidavit November 12, 2010  |
| Maine Public Utilities<br>Commission<br>Docket No. 2008-255                       | Central Maine Power   | Testimony regarding CMP's application for approval<br>the Lewiston Loop 115kV Transmission Project.<br>Testimony addressed non-transmission alternatives.  |
|   |   | Oral Testimony November 16, 2008<br>December 14, 2010  |
|   |   | Rebuttal Testimony November 8, 2010<br>August 27, 2010   |
| Oklahoma<br>Corporation<br>Commission<br>Cause No. PUD 201000092                  | OK Corporation Commission<br>OK Attorney General                          | Testimony regarding a 99.2 MW wind farm power purchase<br>agreement and green energy choice tariff proposed<br>by Public Service Company of Oklahoma, addressing<br>cost pre-approval, resource need, and<br>competitive procurement requirements. |
|   |   | Pre-filed Testimony October 5, 2010  |
|   |   | Oral Testimony November 3, 2010  |
| Oklahoma<br>Corporation Commission<br>Cause No. PUD 201000037                     | Oklahoma Attorney General   | Testimony regarding a 198 MW wind farm<br>proposed by Oklahoma Gas & Electric, addressing<br>cost pre-approval, resource need, and<br>competitive procurement requirements.  |
|   |   | Pre-filed Testimony June 11, 2010  |
| Connecticut Dept. of<br>Public Utilities Control<br>(DPUC)<br>Docket No, 10-02-07 | Connecticut Energy<br>Advisory Board (CEAB)                               | Lead witness sponsoring the CEAB's <i>2010 Comprehensive<br/>Plan for the Procurement of Energy Resources.</i>   |
|   |   | Oral Testimony June 2 & 3, 2010  |
| Georgia Public<br>Service Commission<br>Docket No. 31081                          | Georgia Public<br>Service Commission<br>Public Interest<br>Advocacy Staff | Witness sponsoring testimony regarding integrated<br>resource planning methods, renewable energy,<br>solar PV demonstration projects, and uncertainty analysis.  |
|   |   | Written Testimony May 7, 2010  |
|   |   | Oral Testimony May 18, 2010  |



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| Nevada Public Utilities Commission<br>Docket No. 06-12002  | Nevada Attorney General<br>Bureau of Consumer Protection | Testimony regarding the prudence of Sierra Pacific Power Company in its purchased power expenses for the period December 2001 through November 2002.   |
|  |  | Pre-filed Testimony                      September 14, 2007  |
| Oklahoma Corporation Commission<br>Cause No. PUD 2005516<br>Cause No. PUD 2006030<br>Cause No. PUD 2007012 | Oklahoma Attorney General                                | Testimony regarding a 950 MW coal-fired generation facility proposed by Public Service of Oklahoma and Oklahoma Gas & Electric, including IRP, competitive procurement, and construction financing issues. |
|  |  | Pre-filed Testimony                      May 21, 2007<br>Rebuttal Testimony                      June 18, 2007<br>Oral Testimony                              July 26, 2007                                |
| Oklahoma Corporation Commission<br>Cause No. PUD 2002-038<br>REMAND  | Oklahoma Industrial Energy Consumers (OIEC)              | Testimony regarding a power contract proposal of Lawton Cogeneration and the pricing analysis of Public Service Company of Oklahoma.   |
|  |  | Pre-filed Testimony                      October 28, 2005<br>Rebuttal Testimony                      March 17, 2006<br>Oral Testimony                              May 9, 2006                             |
| New Brunswick Board of Commissioners of Public Utilities (PUB)<br>Ref: 2005-002                            | New Brunswick Power Distribution Company                 | Testimony regarding La Capra Associates' three technical audits of the NBP-Disco purchased power budget and variance analyses for FY 2004 – 2006.  |
|  |  | Oral Testimony                              February 14-22, 2006   |
| Connecticut Department of Public Utility Control<br>Docket No. 05-07-14<br>Phases I and II                 | Connecticut Energy Advisory Board                        | Testimony regarding Connecticut's need for electric capacity to meet reliability requirements and to mitigate congestion charges in the wholesale markets.   |
|  |  | Oral Testimony                              February 14-22, 2006<br>May 1, 2006<br>June 15, 2006<br>September 26, 2005   |
| Hawaii Public Utilities Commission<br>Docket No. 03-0372   | Hawaii Division of Consumer Advocacy                     | Testimony regarding competitive bidding rules and integrated resource planning.  |
|  |  | Oral Testimony                              December 12-16, 2005   |
| Oklahoma Corporation Commission<br>Cause No. PUD 2005-151  | Oklahoma Industrial Energy Consumers (OIEC)              | Testimony regarding resource planning, prudence of generation investment of Oklahoma Gas & Electric Company.   |
|  |  | Pre-filed Testimony                      September 12, 2005<br>Rebuttal Testimony                      September 29, 2005<br>Oral Testimony                              October 18, 2005                  |
| Oklahoma Corporation Commission<br>Cause No. PUD 2003-076  | Oklahoma Industrial Energy Consumers (OIEC)              | Testimony regarding resource planning, prudence of generation investment and fuel and purchased power expenses of Public Service Company of Oklahoma.  |
|  |  | Pre-filed Testimony                      January 4, 2005   |

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| Oklahoma Corporation Commission Cause No. PUD 2003-633/4            | Oklahoma Industrial Energy Consumers (OIEC)           | Testimony regarding power contract proposal for Blue Canyon wind development and avoided costs of Public Service Company of Oklahoma.<br><br>Pre-filed Testimony August 16, 2004  |
| Civil Litigation Maine Superior Court Docket No. CV-01-24           | Central Maine Power Co.                               | Factual and expert witness in litigation regarding pricing provisions of a purchased power agreement between Central Maine Power and Benton Falls Associates.<br>Deposition Testimony April 28, 2004  |
| Oklahoma Corporation Commission                                     | Oklahoma Attorney General                             | Testimony regarding power contract proposal for PowerSmith Cogeneration and avoided cost analysis of Oklahoma Gas & Electric Company.<br><br>Pre-filed Testimony February 18, 2004<br>Rebuttal Testimony March 16, 2004<br>Oral Testimony August 4, 2004      |
| Nevada Public Utilities Commission                                  | Nevada Attorney General Bureau of Consumer Protection | Testimony regarding the Nevada Power Company's Integrated Resource Plan and associated financial plan.<br><br>Pre-filed Testimony September 19, 2003<br>Oral Testimony October 15, 2003   |
| Massachusetts Energy Facilities Siting Council Docket No. EFSB-02-2 | Cape Wind   | Testimony regarding economic, reliability and environmental need for power in the Massachusetts and New England power markets regarding the need for new wind power facility.<br><br>Pre-filed Testimony February 14, 2003<br>Oral Testimony August 6&7, 2003 |
| Maine State Board of Property Tax Review                            | United American Hydro                                 | Testimony regarding the Maine and New England power market prices pertaining to the valuation of a hydro-electric power facility in Winslow, Maine.<br><br>Oral Testimony June 18, 2003   |
| Nevada Public Utilities Commission Docket No. 03-1014               | Nevada Attorney General Bureau of Consumer Protection | Testimony regarding the prudence of Sierra Pacific Power Company in its purchased power expenses for the period December 2001 through November 2002.<br><br>Pre-filed Testimony April 25, 2003  |
| Oklahoma Corporation Commission Cause No. PUD 2002-038              | Oklahoma Attorney General                             | Testimony regarding a power contract proposal of Lawton Cogeneration and the pricing analysis of Public Service Company of Oklahoma.<br><br>Pre-filed Testimony December 16, 2002<br>Oral Testimony May 22, 2003  |
| Arkansas Public Service Commission                                  | General Staff of the AK Public Service Comm.          | Testimony regarding the Development of Competition in Electric Markets and the Impact on Retail Consumers in Arkansas.<br><br>Pre-filed Testimony September 4, 2001   |
| Arkansas Public Service Commission                                  | General Staff of the AK Public Service Comm.          | Testimony regarding the Development of Competition in Electric Markets and the Impact on Retail Consumers in  |

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|   |  | Arkansas.   |                    |
|   |  | Pre-filed Testimony   | September 29, 2000 |
| Arkansas Public Service Commission                          | General Staff of the AK Public Service Comm. | Testimony regarding the establishment of uniform Policies and guidelines for a Standard Service Package.  |                    |
|   |  | Staff Proposal and Comments   | June 13, 2000      |
|   |  | Reply Comments  | July 21, 2000      |
|   |  | Sur reply Comments  | August 2, 2000     |
|   |  | Oral Testimony  | August 8, 2000     |
|   |  | Petition for Rehearing  |                    |
|   |  | Rebuttal Testimony  | November 15, 2000  |
|   |  | Oral Testimony  | November 29, 2000  |
| Arkansas Public Service Commission                          | General Staff of the AK Public Service Comm. | Testimony regarding the determination of the merits of declaring retail billing services competitive effective At the start of retail open access.                                |                    |
|   |  | Oral Testimony  | June 27, 2000      |
|   |  | Pre-filed Rebuttal Testimony  | June 23, 2000      |
|   |  | Pre-filed Testimony   | June 16, 2000      |
|   |  | Oral Testimony  | May 10, 2000       |
| Arkansas Public Service Commission                          | General Staff of the AK Public Service Comm. | Testimony regarding the minimum filing requirements for market power studies to be filed by the Arkansas Electric utilities and affiliated retail companies.                      |                    |
|   |  | Oral Testimony  | June 1, 2000       |
| Amer. Arb. Assoc. No. 50T 198 00197-98                      | Vermont Joint Owners                         | Testimony regarding economic damages resulting from alleged breach of a long-term purchase power agreement between Hydro-Quebec and Vermont utilities (VJO).                      |                    |
|   |  | Oral Testimony  | May 25, 2000       |
|   |  | Pre-filed Rebuttal Testimony  | February 10, 2000  |
|   |  | Pre-filed Testimony   | August 13, 1999    |
| Rhode Island Energy Facilities Siting Board                 | Indeck-North Smithfield, L.L.C.              | Testimony regarding economic, reliability and environmental need for power in the Rhode Island and New England power markets regarding the need for new, merchant power facility. |                    |
|   |  | Pre-filed Testimony   | August 16, 1999    |
|   |  | Oral Testimony  | August 17, 2000    |
|   |  | Pre-filed Testimony   | January 26, 2001   |
|   |  | Oral Testimony  | March 23, 2001     |
| Civil Litigation Maine Superior Court Docket No. CV-98-212  | Central Maine Power Co.                      | Factual and expert witness in litigation regarding pricing provisions of a purchased power agreement between Central Maine Power and Regional Waste Systems.                      |                    |
|   |  | Deposition Testimony  | May 5, 1999        |
| Connecticut Energy Facilities Siting Council Docket No. 190 | PDC – El Paso Meriden LLC                    | Testimony regarding economic, reliability and environmental need for power in the Connecticut and New England power markets regarding the need for new, merchant power facility.  |                    |
|   |  | Pre-filed Testimony   | January 25, 1999   |

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| Rhode Island Energy<br>Facilities Siting Council<br>Docket No. SB-98-1       | R. I. Hope Energy, L. P.     | <p>Testimony regarding economic, reliability and environmental need for power in the Massachusetts and New England power markets regarding the need for new, merchant power facility.</p> <p>Oral Testimony November 4, 1998<br/>Pre-filed Testimony October 30, 1998</p>  |
| Massachusetts Energy<br>Facilities Siting Council<br>Docket No. EFSB-91-101A | Cabot Power Corp.            | <p>Testimony regarding economic, reliability and environmental need for power in the Massachusetts and New England power markets regarding the need for new, merchant power facility.</p> <p>Oral Testimony May 27, 1998<br/>Pre-filed Testimony August 15, 1997</p>   |
| Massachusetts Energy<br>Facilities Siting Council<br>Docket No. EFSB-97-2    | ANP Blackstone Energy        | <p>Testimony regarding economic, reliability and environmental need for power in the Massachusetts and New England power markets regarding the need for new, merchant power facility.</p> <p>Oral Testimony April 6, 1998<br/>Pre-filed Testimony January 23, 1998</p>   |
| Massachusetts Energy<br>Facilities Siting Council<br>Docket No. EFSB-97-1    | ANP Bellingham               | <p>Testimony regarding economic, reliability and environmental need for power in the Massachusetts and New England power markets regarding the need for new, merchant power facility.</p> <p>Oral Testimony February 3, 1998<br/>January 28, 1998</p>  |
| Rhode Island Energy<br>Facilities Siting Board<br>Docket No. SB-97-1         | Tiverton Power Associates LP | <p>Testimony regarding economic, reliability and environmental need for power in the Rhode Island and New England power markets regarding the need for new, merchant power facility.</p> <p>Oral Testimony October 15, 1997<br/>Pre-filed Testimony October 1, 1997</p>  |
| Maine Public Utilities<br>Commission<br>Docket No. 92-102                    | Central Maine Power          | <p>Testimony regarding CMP's avoided cost methods and practices pertaining to the prudence of power purchase contract decisions with regard to contract awards and contract management.</p> <p>Oral Testimony July 1993<br/>Deposition Testimony February 25, 1993<br/>March 1, 1993<br/>Pre-filed Rebuttal Testimony June 7, 1993<br/>Pre-filed Testimony June 15, 1992</p> |
| Maine Public Utilities<br>Commission<br>Docket No. 92-315                    | Central Maine Power          | <p>Testimony regarding CMP's avoided cost methods and practices pertaining to the setting of long-term avoided costs, CMP's Energy Resource Plan, and the relationship of marginal costs of generation to embedded costs.</p> <p>Supplemental Pre-filed Testimony April 20, 1993<br/>Pre-filed Testimony February 17, 1993</p>   |

Maine Public Utilities  
Commission  
Docket No. 87-261  
Docket No. 88-111

Central Maine Power

Testimony regarding CMP's avoided cost methods and practices  
pertaining to the setting of long-term avoided costs, CMP's  
Energy Resource Plan, and the proposal for a 900 MW power  
Contract with Hydro Quebec.

Oral Testimony  
Pre-filed Testimony

Summer 1988  
October 31, 1987





## **Douglas A. Smith**

Managing Consultant and Treasurer

Doug Smith has over thirteen years of experience in the electric industry, bringing diverse strengths to Daymark's project teams by applying his extensive technical and analytical skills. A business professional with over twenty years of increasing responsibility as a consultant to multiple industries, Mr. Smith has a solid background in analysis, finance and accounting, database and software development, quality assurance, and project management.

Mr. Smith leads the firm's Market Analytics team which is responsible for maintaining Daymark's wholesale power market model and wholesale market outlook, researching energy and capacity markets throughout North America, and producing a variety of forecasts used to provide decision support for client needs including asset valuation, integrated resource planning, non-transmission alternative analysis and other similar projects. He has strong experience in market and power system dispatch analysis, and has been responsible for projecting market valuation, power costs, and emissions impacts for a number of clients.

### **SELECTED PROFESSIONAL EXPERIENCE**

- Led an analysis of wind energy congestion for a potential New England wind and transmission project; reported on potential local and regional congestion
- Led an offshore wind siting feasibility study related to a potential investment in offshore leasing. Investigated interconnection and market risks and opportunities
- Led an analysis of the regional benefits related to a proposed dual-fuel fired peaker plant in New England; assisted the team in analyzing and reporting on emissions impact scenarios, with the plant operating as either an energy unit or a reserve unit; investigated state emissions policies and their potential impact on plant operations
- Led an analysis of a combined proposal for wind energy and transmission in northern New England; assisted team members in understanding the impacts of various quantities of wind energy and the respective transmission needed to deliver wind energy and provided scenario analysis to quantify the range of potential benefits, which resulted in two public reports as components of responses to a regional energy procurement effort
- Managed the creation of a proof of concept model of the Southern Company balancing authority and surrounding areas, including benchmarking to available public data and forecasting of potential future capacity expansion futures
- Assisted in asset valuation modeling work, including modeling of long term energy and capacity values for a number of coal, natural gas and hydro facilities
- As an input to several economic studies for NYSERDA, provided review and analysis of a third-party, long-term forecast of New York's energy and capacity markets
- Managed the review of a large generation owner's price forecasting process; provided recommendations for process improvements designed to more-closely align forecasting efforts with internal requirements and updated and extended the client's New York modeling capabilities

using the AURORA production cost model; recommended key benchmarking tools for evaluation of specific forecasting results

- Assisted in the assessment of a request to the Arkansas Public Service Commission for a declaratory order; the request sought a finding that installation of environmental controls at the Flint Creek power plant was in the public interest
- Assisted in assessing requests to the North Dakota Public Service Commission for Advanced Determinations of Prudence; requests were sought by the Montana Dakota Utilities GT and the Big Stone Air Quality Control System
- Assisted in a review of Entergy Arkansas's strategic planning for post-System Agreement operation on behalf of the General Staff of the Arkansas Public Service Commission
- Assisted a Vermont-based utility in the evaluation of a potential generation purchase; designed an analytical model for use in evaluating potential revenue and cost streams under a variety of scenarios
- Assisted in evaluating non-transmission alternatives (NTAs) as compared to a set of proposed transmission upgrades in Vermont; assisted in the development of an economic scorecard designed to facilitate the comparison of transmission and non-transmission solutions on equal footing and compared potential rate impacts of the proposed solutions
- Assisted in evaluating non-transmission alternatives (NTAs) as compared to a set of proposed transmission upgrades in Maine; evaluated the economics of transmission and non-transmission solutions and leveraged market simulation models to estimate the impact of solutions on energy clearing prices in Maine and in New England
- On behalf of Vermont-based utility, developed and analyzed non-transmission alternatives (NTAs) to a set of proposed transmission upgrades that would impact the distribution-level supply system; developed an economic tool to evaluate the cost of operating "pre-contingency" generation options
- Analyzes budgetary and other cost-related data on behalf of the National Railroad Passenger Corporation (Amtrak); interacts with the client on a monthly basis to provide analysis of power cost drivers, track monthly power costs, and deliver other accounting and electric consulting services; provides assistance in periodic power procurement activities
- Assisted in planning, managing, and performing an audit of actual and hypothetical purchased power costs for a Michigan utility; issues included market valuation of potential sales, proper treatment of a pumped storage unit, and validation of commitment/dispatch logic; this project also involved a process audit and the review of large volumes of data involved in determining hypothetical system costs
- Assisted in maintaining an Allocated Cost of Service model, including modifying allocators and introducing new methodology
- Researched issues related to state, regional, and Federal environmental regulations and their impacts on energy generation; modeled environmental variables including current SO<sub>2</sub>, NO<sub>x</sub> and CO<sub>2</sub> rates and allowance prices, emission control technologies, and likely future changes
- Participated in developing revenue projections for valuation of power plants

## PUBLICATIONS

*MCPC Project Benefits; Quantitative and Qualitative Benefits*, Confidential Report prepared for Central Maine Power regarding the benefits of the Maine Clean Power Connection, a 345 kV transmission expansion accompanied by 1100 MW of wind energy project development offered in the Massachusetts RFP for Clean Energy Resources, July 27, 2017. Lead Analyst and Contributing Author.

*NECEC Project Benefits; Quantitative and Qualitative Benefits*, Confidential Report prepared for Central Maine Power and H.Q. Energy Services regarding the benefits of the New England Clean Energy Connection, 1200 MW HVDC transmission expansion accompanied by 1090 MW of hydropower and wind energy project development offered in the Massachusetts RFP for Clean Energy Resources, July 27, 2017. Lead Analyst and Contributing Author.

*MREI Project Benefits; Direct, Indirect, Qualitative and Other Benefits*, prepared for Central Maine Power Company and Emera Maine regarding the benefits of the Maine Renewable Energy Initiative, a 345 kV transmission expansion accompanied by 1200 MW of wind energy project development, January 28, 2016. Lead Analyst and Contributing Author.

*MCPC Project Benefits; Direct, Indirect, Qualitative and Other Benefits*, prepared for Central Maine Power Company regarding the benefits of the Maine Clean Power Connection, a 345 kV transmission expansion accompanied by nearly 600 MW of wind energy project development, January 28, 2016. Lead Analyst and Contributing Author.

## EMPLOYMENT HISTORY

|  |                    |
|--|--------------------|
| <b>Daymark Energy Advisors Inc.</b>      | Boston, MA         |
| <i>Treasurer</i>                         | 2016 – Present     |
| <i>Managing Consultant</i>               | 2017 – Present     |
| <i>Senior Consultant</i>                 | 2008 – 2017        |
| <i>Analyst</i>                           | 2004 – 2008        |
| <b>The Sports Authority</b>              | Ft. Lauderdale, FL |
| <i>Senior POS/EDP Programmer/Analyst</i> | 2002 – 2004        |
| <b>University of Colorado</b>            | Boulder, CO        |
| <i>Instructor, Oracle SQL*Plus Class</i> | 2001 – 2001        |
| <b>SHL USA Inc.</b>                      | Boulder, CO        |
| <i>Software Engineer</i>                 | 2000 – 2001        |
| <b>Strategic Technologies Group</b>      | Boulder, CO        |
| <i>Senior Consultant</i>                 | 1995 – 2000        |

## EDUCATION

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|--|--------------|
| <b>Syracuse University</b>               | Syracuse, NY |
| <i>B.S., Accounting, Summa Cum Laude</i> | 1991         |