

**Docket No. 25-035-47**

**Sierra Club Exhibit 1.1**

Edward Burgess CV

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## Professional Summary

Ed has over 13 years of experience working as a consultant in the energy and utilities industry. He specializes in various grid planning issues including the integration of renewable energy, energy storage, electric vehicles, and distributed energy resources. He has provided expert testimony on over 30 occasions before 13 state utility commissions on issues including utility resource planning, transmission planning, fuel and power purchase costs, rate design, and electric vehicle programs. Prior to co-founding Current Energy Group in 2024, he was a Consulting Partner at Strategen where he worked for over 8 years. While at Strategen, he directed the company's grid planning practice area, where he provided technical consulting services to a variety of public and private sector clients including state and federal government agencies, Fortune 500 companies, trade associations, and public interest organizations. He also helped launch and served as the inaugural Director for the Vehicle-Grid Integration Council and grew the organization to over 40 member companies. He also worked for Arizona State University where he helped launch their Utility of the Future initiative as well as the Energy Policy Innovation Council.

## Education

### **Professional Science Masters, Solar Energy Engineering and Commercialization**

Arizona State University – Tempe, AZ (2012)

### **Master of Science, Sustainability**

Arizona State University – Tempe, AZ (2011)

### **Bachelor of Arts, Chemistry**

Princeton University – Princeton, NJ (2007)

## Work Experience

### **Founder, Current Energy Group, (March 2024 – Present)**

#### **Consulting Partner, Strategen Consulting, (August 2015 – March 2024)**

- Joined in 2015 and helped grow the company's consulting practice team by more than 3 times.
- Directed the company's grid planning practice area, where he provided technical consulting services to a variety of public and private sector clients including state and federal government agencies, Fortune 500 companies, trade associations, and public interest organizations.

- Helped launch and served as the inaugural Director for the Vehicle-Grid Integration Council and grew the organization to over 40 member companies.

**Independent Consultant (2012 – 2015)**

- Worked as a technical consultant supporting various clients for attorney Kris Mayes (former Arizona Corporation Commission Chair and current Arizona Attorney General).
- Technical consultant for Schlegel & Associates, working with a coalition of Fortune 500 companies on energy efficiency and demand-side management policies across the US.

**Research Associate, Arizona State University (2012-2015)**

- Worked across disciplines as a researcher and program administrator for various efforts related to energy and sustainability.
- Assisted in launching the University's Utility of the Future initiative as well as the Energy Policy Innovation Council.
- Conducted a technical study in partnership with Arizona Department of Environmental Quality on the compliance pathways and impacts of the EPA's Clean Power Plan.

**Research Fellow, Environmental Defense Fund (2007 – 2009)**

## Expert Testimony

**California Public Utilities Commission**

- Pacific Power 2020 Energy Cost Adjustment Clause (Docket No. A.19-08-002)
- Pacific Power 2021 Energy Cost Adjustment Clause (Docket No. A.20-08-002)
- Pacific Power 2022 Energy Cost Adjustment Clause (Docket No. A.21-08-004)
- Pacific Gas and Electric's Day-Ahead Real Time Rate and Pilot (Docket No. A.20-10-011)
- Pacific Gas and Electric's Electric Vehicle Charge 2 Application (Docket No. A.21-10-010)
- CPUC Rulemaking on Emergency Summer Reliability (Docket No. R.20-11-003)

**Colorado Public Utilities Commission**

- Tri-State Generation and Transmission Application for a CPCN (Docket No. 22A-0085E)

**Indiana Utility Regulatory Commission**

- Duke Energy Fuel Adjustment Clause (Cause No. 38707 FAC 125)
- Duke Energy Fuel Adjustment Clause –Sub-docket Investigation (Cause No. 38707 FAC 123 S1)

**Louisiana Public Service Commission**

1. Entergy Certification to Deploy Natural Gas Distributed Generation (Docket No. U-36105)

**Massachusetts Department of Public Utilities**

- National Grid General Rate Case (D.P.U. 18-150)
- Eversource, National Grid, and Until SMART Tariff (D.P.U. 17-140)

**Michigan Public Service Commission**

- Consumers Energy 2021 Integrated Resource Plan (Docket No. U-21090)

**Nevada Public Utilities Commission**

- NV Energy's Integrated Resource Plan (Docket No. 20-07023)
- NV Energy's Integrated Resource Plan (Docket No. 22-09006)
- NV Energy's Integrated Resource Plan (Docket No. 24-05041)

**North Carolina Utilities Commission**

- Duke Energy Carbon Plan (Docket No. E-100, Sub 179)
- Duke Energy Progress 2023 General Rate Case
- Duke Energy Carolinas 2033 General Rate Case

**Oregon Public Utilities Commission**

- Pacific Power 2021 Transition Adjustment Mechanism (Docket No. UE-375)
- Pacific Power 2022 Transition Adjustment Mechanism (Docket No. UE-390)
- Northwest Natural 2022 General Rate Case (Docket No. UG-435)

**South Carolina Public Service Commission**

- Dominion Energy South Carolina 2019 Avoided Cost Methodologies (Docket No. 2019-184-E)
- Duke Energy Carolinas 2019 Avoided Cost Methodologies (Docket No. 2019-185-E)
- Dominion Energy Progress 2019 Avoided Cost Methodologies (Docket No. 2019-186-E)
- Dominion Energy South Carolina 2021 Avoided Cost Methodologies (Docket No. 2021-88-E)

**Virginia**

- Dominion Energy 2023 Integrated Resource Plan (Case No. PUR-2023-00066)

**Washington Utilities and Transportation Commission**

- Avista Utilities 2020 General Rate Case (Docket No. UE-200900)
- Avista Utilities 2022 General Rate Case (Docket No. UE-220053/UG-220054)
- Puget Sound Energy 2022 General Rate Case (Docket No. UE-220066/UG-220067)

**Wisconsin Public Service Commission**

- Wisconsin Electric Certificate of Public Convenience and Necessity (Docket No. 6630-CE-316)
- Wisconsin Electric Certificate of Public Convenience and Necessity (Docket No. 6630-CE-317)
- Wisconsin Electric Certificate of Authority (Docket No. 6630-CG-140)

## Selection of Relevant Experience

**Western Resource Advocates***Nevada Energy IRP Analysis / 2018 -2019*

- Conducted a thorough technical analysis and report on the NV Energy IRP (Docket No. 18-06003).
- Investigated resource mixes that included higher levels of demand side management, renewable energy, battery storage, and decreased reliance on existing and/or planned fossil fuel plants.

**Massachusetts Office of the Attorney General***SMART Program / 2016 -2017*

- Appeared as an expert witness and supported drafting of testimony on the implementation of the MA SMART program (D.P.U. 17-140), which is expected to deploy 1600 MW of solar PV (and PV + storage) resources over the next several years.
- Served as an expert consultant on multiple rate cases regarding utility rate design and implications for ratepayers and distributed energy resource deployment.

**Southwest Energy Efficiency Project***IRP Technical Analysis and Modeling / 2018 -2020*

- Provided critical analysis and alternatives to the 2020 integrated resource plans (IRPs) of the state's major utilities, Arizona Public Service (APS) and Tucson Electric Power (TEP).
- Provided analysis on Salt River Project's resource plan as part of its 2035 planning process.
- Evaluated different levels of renewable energy and energy efficiency and identify any changes to the resources needed to meet these requirements and ensure reliability.
- Worked with Strategen technical team on utilizing a capacity expansion model to optimize the clean energy portfolio used in the analysis of the IRPs.

**California Energy Storage Alliance***California Hybridization Assessment / 2018 -2019*

- Managed a special initiative of this leading industry trade group to conduct technical analysis and stakeholder outreach on the value of hybridizing existing gas peaker plants with energy storage

**Portland General Electric***Energy Storage Strategy / 2016*

- Provided education and strategic guidance to a major investor-owned utility on the potential role of energy storage in their planning process in response to state legislation (HB 2193).
- Participated in public workshop before the Oregon Public Utilities Commission on behalf of PGE.
- Supported development of a competitive solicitation process for storage technology solution providers.

**Arizona Residential Utility Consumer Office (RUCO)**

*IRP Analysis and Impact Assessment / 2015 -2018*

- Supported drafting of expert witness testimony on multiple rate cases regarding utility rate design, distributed solar PV, and energy efficiency.
- Performed analytical assessments to advance consumer-oriented policy including rate design, resource procurement/planning, and distributed generation consumer protection.
- Lead author on the white paper published by RUCO introducing the concept of a Clean Peak Standard.

**Sierra Club**

*PacifiCorp 2021 IRP Technical Support / 2020 -2021*

- Provided technical support for Sierra Club in analyzing issues of interest during PacifiCorp's IRP stakeholder input process.
- Prepared analysis, technical comments, discovery requests in advance of drafting formal comments to be submitted before the Oregon Public Utility Commission.

**North Carolina, Office of the Attorney General**

*Duke Energy 2020 IRP Technical Support / 2020 -2021*

- Provided technical support and analysis to the state's consumer advocate on utility integrated resource plans and their implications for customers and public policy goals.
- Presented original analysis at multiple IRP-related technical workshops hosted by the NCUC

**University of Minnesota**

*Energy Storage Stakeholder Workshops / 2016 -2017*

- Facilitated multiple stakeholder workshops to understand and advance the appropriate role of energy storage as part of Minnesota's energy resource portfolio.
- Conducted study on the use of storage as an alternative to natural gas peaker.
- Presented workshop and study findings before the Minnesota Public Utilities Commission.

**New Hampshire Office of Consumer Advocate**

*NEM Successor Tariff Design / 2016*

- Worked with the state's consumer advocate to develop expert testimony on a case reforming the state's market for distributed energy resources, developing a new methodology for designing retail electricity rates that is intended to support greater deployment of energy storage.

**Xcel Energy**

*Time-of-use Rates / 2017 -2018*

- Conducted analysis supporting the design of a new residential time-of-use rate for Northern States Power (Xcel Energy) in Minnesota.

Selected Recent Publications:

- New York BEST, 2020. Long Island Fossil Peaker Replacement Study.
- Ceres, 2020. Arizona Renewable Energy Standard and Tariff: 2020 Progress Report.
- Virginia Department of Mines and Minerals, 2020. Commonwealth of Virginia Energy Storage Study.
- Sierra Club, 2019. Arizona Coal Plant Valuation Study.
- Strategen, 2018. Evolving the RPS: Implementing a Clean Peak Standard.”
- SunSpecAlliance for California Energy Commission.,2018. Analysis Report of Wholesale Energy Market Participation by Distributed Energy Resources (DERs) in California.