

**EXH. EAB-2
DOCKETS UE-220066/UG-220067
2022 PSE GENERAL RATE CASE
WITNESS: ED BURGESS**

**BEFORE THE
WASHINGTON UTILITIES AND TRANSPORTATION COMMISSION**

**WASHINGTON UTILITIES AND
TRANSPORTATION COMMISSION,**

Complainant,

v.

PUGET SOUND ENERGY,

Respondent.

**Docket UE-220066
Docket UG-220067**

**FIRST EXHIBIT (PROFESSIONAL QUALIFICATIONS) TO
THE PREFILED RESPONSE TESTIMONY OF**

ED BURGESS

**ON BEHALF OF NW ENERGY COALITION, FRONT AND CENTERED, AND
SIERRA CLUB**

JULY 28, 2022

Edward Burgess

Senior Director



Ed leads the integrated resource planning practice at Strategen. Ed has served clients including consumer advocates, public interest organizations, Fortune 500 companies, energy project developers, trade associations, utilities, government agencies, universities, and foundations. He has led or contributed to expert testimony, formal comments, technical analyses, and strategic grid planning efforts for clients in over 25 states. These have focused on a range of topics including resource planning and procurement, utility system operations, transmission planning, energy storage, electric vehicles, utility rates and rate design, demand-side management, and distributed energy resources.

Contact



Location

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Education

PSM

Solar Energy Engineering and Commercialization

Arizona State University
2012

MS

Sustainability

Arizona State University
2011

BA

Chemistry

Princeton
2007

STRATEGEN.COM

Work Experience

Senior Director

Strategen / Berkeley, CA / 2015 - Present

- + Focuses on energy system planning via economic analysis, technical regulatory support, integrated resource planning and procurement, utility rates, and policy & program design.
- + Supports clients such as trade associations, project developers, public interest nonprofits, government agencies, consumer advocates, utilities commissions and more.

Senior Policy Director

Vehicle-Grid Integration Council / Berkeley, CA / 2019 - Present

- + Leads advocacy and regulatory policy for a group representing major auto OEMs and EVSEs
- + Advances state level policies and programs to ensure the value from EV deployments and flexible EV charging and discharging is recognized and compensated
- + Leads all policy development, education, outreach, and research efforts

Consultant

Kris Mayes Law Firm / Phoenix, AZ / 2012 - 2015

- + Consulted on policy and regulatory issues related to the electricity sector in the Western U.S.

Consultant

Schlegel & Associates / Phoenix, AZ / 2012 - 2015

- + Conducted analysis and helping draft legal testimony in support of energy efficiency for a utility rate case.

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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.”*
- + SunSpec Alliance for California Energy Commission.,2018. *Analysis Report of Wholesale Energy Market Participation by Distributed Energy Resources (DERs) in California.*

Domain Expertise

Vehicle Grid Integration

Distributed Energy Resources

Electric Vehicle Rates,
Programs and Policies

Energy Resource Planning

Benefit Cost Analysis

Electricity Expert Testimony

Stakeholder Engagement

Energy Policy & Regulatory
Strategy

Energy Product Development
& Market Strategy

Relevant Project Experience

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.
- + Ed was the lead author on the white paper published by RUCO introducing the concept of a Clean Peak Standard.

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. Ed served as an expert consultant on multiple rate cases regarding utility rate design and implications for ratepayers and distributed energy resource deployment.

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.

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Relevant Project Experience (con't)

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 sophisticated 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.

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.

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.

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)
- CPUC Rulemaking on Emergency Summer Reliability (Docket No. R.20-11-003)

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

- 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 in (Docket No 20-07023)

Oregon Public Utilities Commission

- Pacific Power 2021 Transition Adjustment Mechanism (Docket No. UE-375)
- Pacific Power 2022 Transition Adjustment Mechanism (Docket No. UE-390)

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)

Washington Utilities and Transportation Commission

- Avista Utilities General Rate Case (Docket No. UE-200900)