



Maria Roumpani

Partner, mroumpani@currentenergy.group

Professional Summary

Maria is an expert in energy system planning and an energy modeler. She focuses on the economic and technical analysis of grid planning and operations issues and has experience in capacity expansion optimization, production cost simulations, and energy storage dispatch modeling. Maria has submitted expert testimony and comments on integrated resource planning, plant economics, unit commitment practices, power cost issues, and demand side management plans. Her clients include consumer advocates, public interest organizations, energy project developers, government agencies, and large energy buyers.

Education

PhD, Management Science & Engineering

Stanford University, 2018

MSc, Electrical and Computer Engineering

National Technical University of Athens, 2009

Work Experience

Founding Partner, Current Energy Group (May 2024 – Present)

- Founding partner specializing in the economic and technical analysis of grid planning and operations issues, including capacity expansion, production cost, and energy storage dispatch modeling.

Founder, ELO Engineering Consulting (March 2024 – May 2024)

- Conducted analysis on energy policy and economic issues.

Technical Director | Strategen Consulting (2018 – March 2024)

- Led firmwide technical and economic modeling and analysis to support consulting engagements. Specialized in the use of modeling tools to inform grid planning and decarbonization issues.

Research Assistant | Precourt Institute for Energy, Stanford University (2011 – 2017)

- Conducted research in a wide range of topics, from game theoretical approaches in electricity markets to behavioral economics.

Researcher | Energy, Economics, & Environment Modeling laboratory, National Technical University of Athens, (2009-2010, 2015)

- Contributed to the development of long-term energy planning models.
- Developed a wholesale electricity market competition model.

Expert Testimony

Duke Energy Carolinas, LLC and Duke Energy Progress, LLC's Joint Application to Engage in a Business Combination

on behalf of the Sierra Club

Public Service Commission of South Carolina

Docket No. 2025-230-E

[Testimony](#)

Virginia Electric and Power Company's Application for a Certificate of Public Convenience and Necessity to construct and operate the Chesterfield Energy Reliability Center

on behalf of Advanced Energy United

Virginia State Corporation Commission

Case No. PUR-2025-00037

[Testimony](#)

Georgia Power Company's 2025 Integrated Resource Plan

on behalf of Georgia Conservation Voters Georgia

Georgia Public Service Commission

Docket No. 56002

[Testimony](#)

Virginia Electric and Power Company's 2024 Integrated Resource Plan

on Behalf of Advanced Energy United

Virginia State Corporation Commission

Case No. PUR-2023-00066

[Testimony](#)

East Kentucky Power Cooperative, Inc. Application for Approval of Demand Side Management Tariffs

on Behalf of Joint Intervenors Appalachian Citizens' Law Center, Kentuckians for The Commonwealth, and Mountain Association

Kentucky Public Service Commission

Case No. 2024-00370

[Testimony](#)

NV Energy and Sierra Pacific Power Company 2025-2044 Integrated Resource Plan

on behalf of Advanced Energy United

Public Utilities Commission of Nevada

Docket No. 24-05041

[Testimony](#)

Duke Energy Carolinas and Duke Energy Progress 2023 Integrated Resource Plans

on behalf of Sierra Club, South Carolina Coastal Conservation League, Southern Alliance for Clean Energy, Upstate Forever, and Vote Solar

Public Service Commission of South Carolina

Docket No. 2023-8-E & No. 2023-10-E

[Testimony](#)

Biennial Consolidated Carbon Plan and Integrated Resource Plans of Duke Energy Carolinas, and Duke Energy Progress,

on behalf of the Southern Alliance for Clean Energy, Sierra Club, Natural Resources Defense Council, and North Carolina Sustainable Energy Association

North Carolina Utilities Commission

Docket E-100, Sub 190

[Testimony](#)

Annual Review of Base Rates for Fuel Costs of Dominion Energy South Carolina, Inc.

on behalf of the South Carolina Office of Regulatory Staff

Public Service Commission of South Carolina

Docket No 2023-2-E

[Testimony](#)

Annual Review of Base Rates for Fuel Costs of Duke Energy Progress, LLC

on behalf of the South Carolina Office of Regulatory Staff

Public Service Commission of South Carolina

Docket No 2023-1-E

[Testimony](#)

Virginia Electric and Power Company 2023 Integrated Resource Plan

on behalf of Advanced Energy United

Virginia State Corporation Commission

Case No. PUR-2023-00066

[Testimony](#)

PacifiCorp's Transition Adjustment Mechanism

on behalf of Sierra Club

Oregon Public Utilities Commission
Docket No. UE 420

[Testimony](#)

DTE 2022 IRP

on behalf of the Michigan Energy Innovation Business Council
Michigan Public Service Commission
Case U-21193

[Testimony](#)

Duke Energy Carolinas and Duke Energy Progress 2022 Carbon Plan

on behalf of the Tech Customers
North Carolina Utilities Commission
Docket E-100, Sub 179

[Testimony](#)

Public Service Company of Colorado

on behalf of Sierra Club
Colorado Public Utilities Commission
Proceeding No. 21A-0141E

[Testimony](#)