

## Michael Ty Clark

### RESUME

December 2023

#### Address:

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#### Academic Background:

PhD – Florida State University, 2015, Economics  
MS – Florida State University, 2013, Economics  
BA – Utah State University, 2011, Economics

#### Positions Held:

Vice President, Laurits R. Christensen Associates, Inc., 2022-present  
Senior Economist, Laurits R. Christensen Associates, Inc., 2017-2021  
Economist, Laurits R. Christensen Associates, Inc., 2015-2017  
Instructor, Florida State University, Summer 2013-2014  
Teaching Assistant, Florida State University, 2011-2015

#### Professional Experience:

Specialization in energy, antitrust, applied econometrics, data analysis, and microeconomic theory. My energy experience involves econometric application and data management, such as evaluating residential, commercial, or industrial demand response programs for utilities. My antitrust experience includes class action lawsuits concerning price fixing and price discrimination matters; covering industries such as broilers, animation, electrical components, wholesale & retail gasoline, and airlines. I have implemented an array of quantitative techniques including various econometric models, demand estimation, machine learning, forecasting, and management of large complex datasets.

#### Major Projects:

Prepared load forecast and direct testimony for utility rate case including forecasts of energy, demand, electric vehicles, distributed generation, and energy efficiency.  
Provided direct testimony and analysis for Time-of-Use rate design.

Prepared revenue requirement forecast for utility including projections of energy, generation capacity, and transmission capacity costs. Provided rate design recommendations for Critical Peak Pricing (CPP) and DC Fast Charging (DCFC) options.

Estimated long-term marginal costs in the Florida Reliability Coordinating Council region as part of an evaluation to determine the cost effectiveness of LED lighting.

Provided long-term forecast of utility loads, including simulations of electric vehicle and solar generation adoptions paths and their effect on system loads.

Provided bill-impact analysis and support for utility as part of their general rate case.

Estimated Real Time Pricing (RTP) load impacts as well as forecasted RTP impacts over various simulations.

Econometric pass-through analysis in antitrust class action (multi-district) supply fixing case.

Estimated Covid-19 related load impacts of Shelter-in-Place (SIP) orders for residential customers. Provided rate comparisons assuming different SIP durations.

Developed and implemented methodology to estimate load impacts for electric vehicle TOU rates by identifying the date customers begin charging electric vehicle via structural breaks in usage.

Provided econometric support in antitrust price discrimination (*i.e.*, Robinson Patman Act) class action case.

Provided support in antitrust price discrimination case regarding wholesale and retail gasoline sales.

Econometric analysis and report of utility pilot program implementing TOU rate and CPP events with customer-installed Wi-Fi thermostats. Analysis included demand response, energy efficiency, and bill impacts.

Estimated TOU load impacts for residential customers with rooftop solar systems (*i.e.*, net energy metering).

Evaluated load impacts associated with installing rooftop solar for residential customers; simulated photovoltaic distributed generation profiles.

Econometric analysis and report of electricity and gas energy efficiency impacts regarding the installation of Wi-Fi thermostats.

Evaluated residential demand response pilot programs with programmable-controllable thermostats; provided weather specific forecasts. Modeled discrete choice event opt-

out behavior.

Provided econometric support and data management in multi-district antitrust price fixing case.

Assisted in the development of wholesale electricity transmission prices.

Assisted developing a report regarding the assumptions of non-hydro renewable generation in the Clean Power Plan Regulatory Impact Analysis.

**Professional Papers:**

“2022 Statewide Load Impact Evaluation of Non-Residential Critical Peak Pricing (CPP) Rates” with Daniel G. Hansen, Corey Lott, and Xueting Wang, 2023.

“2022 Load Impact Evaluation of San Diego Gas and Electric’s Voluntary Residential Critical Peak Pricing (CPP) and Time-of-Use (TOU) Rates” with Nick Crowley, and Aidan Glaser Schoff, 2023.

“2022 Load Impact Evaluation of California Statewide Base Interruptible Programs (BIP) for Non-Residential Customers: *Ex-post* and *Ex-ante* Report” with Daniel G. Hansen and Michael Vigdor, 2023.

“2021 Statewide Load Impact Evaluation of Non-Residential Critical Peak Pricing (CPP) Rates” with Daniel G. Hansen, Corey Lott, Xueting Wang, and Michael Vigdor, 2022.

“2021 Load Impact Evaluation of San Diego Gas and Electric’s Voluntary Residential Critical Peak Pricing (CPP) and Time-of-Use (TOU) Rates” with Daniel G. Hansen, Nick Crowley, and Aidan Glaser Schoff, 2022.

“2021 Load Impact Evaluation of California Statewide Base Interruptible Programs (BIP) for Non-Residential Customers: *Ex-post* and *Ex-ante* Report” with Daniel G. Hansen and Michael Vigdor, 2022.

“2020 Load Impact Evaluation of San Diego Gas and Electric’s Electric Vehicle Rates” with Daniel G. Hansen, 2021.

“2020 Load Impact Evaluation of San Diego Gas and Electric’s Voluntary Residential Critical Peak Pricing (CPP) and Time-of-Use (TOU) Rates” with Daniel G. Hansen, Nick Crowley, and Navya Kataria, 2021.

“2020 Load Impact Evaluation of California Statewide Base Interruptible Programs (BIP) for Non-Residential Customers: *Ex-post* and *Ex-ante* Report” with Daniel G. Hansen, 2021.

“2019 Load Impact Evaluation of San Diego Gas and Electric’s Electric Vehicle Rates” with Daniel G. Hansen, and Nick Crowley, 2020.

“2019 Load Impact Evaluation of San Diego Gas and Electric’s Voluntary Residential Critical Peak Pricing (CPP) and Time-of-Use (TOU) Rates” with Daniel G. Hansen, Nick Crowley, and David A. Armstrong, 2020.

“2019 Load Impact Evaluation of California Statewide Base Interruptible Programs (BIP) for Non-Residential Customers: *Ex-post* and *Ex-ante* Report” with Daniel G. Hansen and David A. Armstrong, 2020.

“2018 Load Impact Evaluation of San Diego Gas and Electric’s Voluntary Residential Critical Peak Pricing (CPP) and Time-of-Use (TOU) Rates” with Daniel G. Hansen and Nick Crowley, 2019.

“2018 Load Impact Evaluation of California Statewide Base Interruptible Programs (BIP) for Non-Residential Customers: *Ex-post* and *Ex-ante* Report” with Daniel G. Hansen and David A. Armstrong, 2019.

“2017 Statewide Load Impact Evaluation of Non-Residential Critical Peak Pricing (CPP) Rates” with Daniel G. Hansen, Corey Lott, and Nick Crowley, 2018.

“2017 Load Impact Evaluation of California Statewide Base Interruptible Programs (BIP) for Non-Residential Customers: *Ex-post* and *Ex-ante* Report” with Daniel G. Hansen and Nick Crowley, 2018.

“2017 Load Impact Evaluation of San Diego Gas and Electric’s Voluntary Residential Critical Peak Pricing (CPP) and Time-of-Use (TOU) Rates” with Daniel G. Hansen and Nick Crowley, 2018.

“2016 Load Impact Evaluation of Sacramento Municipal Utility District’s No Opt-Out PowerStat Pilot Program” with Daniel G. Hansen, Michael J. Thacker, and Steven D. Braithwait, 2017.

“2016 Load Impact Evaluation of Sacramento Municipal Utility District’s PowerStat Pilot Program” with Daniel G. Hansen, Michael J. Thacker, and Steven D. Braithwait, 2017.

“2016 Load Impact Evaluation of Pacific Gas and Electric Company’s Residential Time-Based Pricing Programs: *Ex-post* and *Ex-ante* Report for Customers with Net Energy Metering,” with Daniel G. Hansen and Nick Crowley, 2017.

“2016 Load Impact Evaluation of Pacific Gas and Electric Company’s Mandatory Time-of-Use Rates for Small, Medium, and Agricultural Non-residential Customers: *Ex-post* and *Ex-ante* Report,” with Daniel G. Hansen and Nick Crowley, 2017

“2016 Load Impact Evaluation of San Diego Gas and Electric’s Voluntary Residential Critical Peak Pricing (CPP) and Time-of-Use (TOU) Rates,” with Steven D. Braithwait and Daniel G. Hansen, 2017.

“2015 Load Impact Evaluation of California Statewide Demand Bidding Programs (DBP) for Non-Residential Customers: *Ex-post* and *Ex-ante* Report,” with Daniel G. Hansen, 2016.

**Public Testimony**

“Direct Testimony of Michael Ty Clark,” Michael Ty Clark, PhD, Michigan Public Service Commission, Case No. U-21488, December 11, 2023.

**Conference and Workshop Presentations:**

2023 EEI Electric Rates Course (Madison, WI)  
2023 DRMEC Load Impact Evaluation and Enrollment Workshop (Virtual)  
2022 DRMEC Load Impact Evaluation and Enrollment Workshop (Virtual)  
2021 EUCI TOU/Residential Demand Charges Workshop (Virtual)  
2021 DRMEC Load Impact Evaluation and Enrollment Workshop (Virtual)  
2017 EUCI Rate Design Post-Conference TOU Workshop (Baltimore, MD)  
2017 DRMEC Load Impact Evaluation and Enrollment Workshop (San Francisco, CA)  
2016 DRMEC Load Impact Evaluation and Enrollment Workshop (San Francisco, CA)  
2014 Southern Economic Association (Atlanta, GA)  
2011 Association of Private Enterprise Education (Nassau, Bahamas)

**Journal Articles:**

“The Law of the Taxi: Informal Property Rights Institutions in the Uninhibited State” with Diana W. Thomas, Humberto Alba Castillo, and Kevin D. Gomez), *Journal of Private Enterprise*, 35(3): 49-62, 2020.

**Unpublished Papers:**

“Passenger Welfare Effects from Post-Merger Route Adjustments,” with Gary M. Fournier.

“Predicting Network Efficiency Gains in Airline Mergers for Antitrust Review,” with Gary M. Fournier.

“Slot Transfers as a Remedy in Airline Mergers: UA-CO Divestitures at Newark,” with Gary M. Fournier.

**Fellowships & Awards:**

Dec. 2014      Rockwood Teaching Award, Florida State University

2012-2015      Manuel and Mary Johnson Endowed Graduate Fellowship, Florida State University

2011-2012      Manly Johnson Doctoral Fellowship, Florida State University

**Computer/Programming Skills:** Stata, SAS, R, LaTeX, MS Office suite