



# Sarah Monohon

## Principal Consultant



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### EDUCATION

- > B.A., Economics, cum laude, Phi Beta Kappa, Willamette University, Salem, Oregon

### EMPLOYMENT

- > Evergreen Economics  
2013 – current

**Sarah Monohon** has 12 years of experience in project management, regression analysis, data collection, and synthesizing analysis of large, disparate datasets. She has applied these skills to projects ranging from utility program evaluations (often collaborating with multiple utilities) and baseline studies to integrated demand side management research and Medicaid forecasting. Sarah has expertise in a variety of software packages including R, SQL, Limdep, SPSS, PRISM, and IMPLAN.

### AREAS OF EXPERTISE

Sarah has led and supported a wide range of process evaluations and residential impact evaluations, market research, and assessment studies. She specializes in using the R and SQL programming languages to develop and implement analytical solutions for Evergreen evaluations, including data cleaning and analysis, complex statistical modeling, constructing experimental design studies, designing and implementing normalized metered energy consumption (NMEC) analysis, leveraging secondary data, and developing informative analytical tools such as interactive graphics and dashboards. Her web tools have been used to give stakeholders the ability to interact with our data, generating custom, interactive graphics. Sarah has used secondary data and building simulation models to characterize the market size and potential for addressing decarbonization goals through building electrification.

### SELECTED INDUSTRY EXPERIENCE

- > **Portland General Electric (PGE) Commercial Smart Thermostat Impact Evaluation**  
Project manager for an impact evaluation for Energy Trust of Oregon and Portland General Electric (PGE) of direct install smart thermostats incentivized for 593 small and medium business customers between August 2018 and February 2021.
- > **2025 California Investor-Owned Utilities and the California Public Utilities Commission Low Income Needs Assessment**  
Market characterization lead for the fifth California statewide low-income needs assessment to inform the state's low-income utility weatherization program (specifically, the Energy Savings Assistance [ESA] program) and the primary low-income rate program (the California Alternative Rates for Energy); this most recent study provides a comprehensive market characterization of low-income high and low energy using households together with a survey of energy use habits.



**Sarah Monohon**  
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## SELECTED INDUSTRY EXPERIENCE (continued)

- > **Bonneville Power Administration Energy Efficiency Strategic Energy Management (SEM) Persistence Study**  
Conducted study design and scoping for a persistence study to estimate the effective useful life and remaining useful life for measures associated with BPA's SEM program.
- > **MCE CalTRACK Technical Support**  
Project manager supporting MCE's development of a web tool that will provide existing customer characteristics and site-level baseline energy usage model fit, including coordinating with the MCE lead on project developments and serving as a subject matter expert. Evergreen is providing support with the development of baseline models, advising on the web tool's infrastructure, and providing ad hoc support to MCE's team.
- > **MCE Strategic Energy Management (SEM) Core Assessment**  
For MCE, currently analyzing SEM participant data and conducting market research to inform the development of a streamlined SEM offering intended for commercial and industrial customers for whom a full SEM engagement is not appropriate.
- > **Bonneville Power Administration Impact Evaluation Services**  
Developed sample designs for three separate commercial and industrial impact evaluations. Advised on residential billing analysis, heat pump savings drivers' analysis, and evaluation planning.
- > **Pacific Gas and Electric San Joaquin Valley Disadvantaged Communities (SJV DAC) Pilot Impact Evaluation**  
Project manager leading an impact evaluation of the SJV DAC Pilot in the communities served by two program administrators, Pacific Gas and Electric (PG&E) and Richard Heath and Associates (RHA). This pilot offered no-cost electrification, remediation, and electric appliance upgrades to communities that were reliant on propane and wood-burning appliances. Developed a multi-mode survey to participants, non-participants, and customers who applied but never completed the upgrades, and is currently overseeing the billing analysis and calculation of program success metrics.
- > **SoCalGas San Joaquin Valley Disadvantaged Communities (SJV DAC) Pilot Impact Evaluation**  
Project manager leading an impact evaluation of the SJV DAC Pilot in the community served by Southern California Gas, and developed a multi-mode survey to participants, non-participants, and customers who applied but never completed the upgrades. This pilot offered no-cost gas line extensions and efficient natural gas appliances to homes that were reliant on propane and wood-burning appliances.
- > **Xcel Energy Energy Action Days Behavioral Pilot Savings Verification**  
Project manager overseeing the estimation of energy savings achieved by a behavioral demand response pilot. This was a verification exercise, replicating the analysis and savings reported by a third party program implementer.
- > **MCE Equitable Electrification Study**  
Project manager for a study that is analyzing the market potential for electrification measures, assessing the economic value proposition of different measure bundles, and identifying the key barriers and opportunities for adoption to help MCE promote fair and equitable electrification. We have completed in-depth interviews with electrification program staff, a literature review, secondary data analysis, and are currently fielding a multi-mode residential customer survey to assess the needs, awareness, interest, and barriers to electrification across different demographics and communities (e.g., renters, Spanish-speakers, BIPOC, moderate-income).

- > **Pacific Gas and Electric Small Business Utility Advocates (SBUA) Environmental and Social Justice (ESJ) Study**  
Led the analysis of customer data for a study that focused on the needs and potential for further engagement of small businesses in environmental and social justice (ESJ) communities and on tribal lands.
- > **Energy Trust of Oregon Ductless Heat Pump Controls Coordinated Research Project Evaluation**  
Project manager, conducted in-depth interviews with program staff and device vendor, and conducted hourly billing analysis for an evaluation to estimate the annual electricity savings attributable to smart ductless heat pumps (DHPs) in electrically-heated single family homes.
- > **MCE Low Income Families and Tenants (LIFT) Program Evaluation**  
Project manager and analysis lead in assisting MCE (formerly Marin Clean Energy) in completing its advice letter filing (providing a preliminary EM&V plan and recommendations for the program metrics), and in conducting a variety of qualitative and quantitative research activities from 2022 through 2024 to characterize the current program cycle and assess the persistence of savings since the beginning of the LIFT pilot.
- > **Evaluation of Ductless Heat Pump Controls in the Portland General Electric Smart Grid Test Bed**  
Project manager overseeing analysis and survey design for an evaluation that leveraged a participant survey and advanced metering infrastructure (AMI) energy consumption data from a separate related Energy Trust of Oregon study, adding additional analysis to address research questions posed by PGE.
- > **Consolidated Edison 2020-2021 Heat Pump M&V Research Study**  
As part of a team working to quantify the impacts of heat pump technologies in terms of energy and demand and to identify key drivers of the impacts for ConEd, supported advanced metering infrastructure (AMI) data analysis including quality control of data and adjusting filters and interpreting results.
- > **Pacific Gas and Electric Small Business Utility Advocates (SBUA) Distributed Energy Resources (DER) Study**  
Technical advisor for a study on small businesses' adoption of distributed energy resources (DER); the study results will potentially provide a basis for requesting funding and/or informing programs and markets directed at small business customers with the goal to increase DER adoption.
- > **2022 Residential Building Stock Assessment**  
For the Northwest Energy Efficiency Alliance, developed single-family sample frame, assisted with recruitment planning and sample design and mailer forecasting (impacts of COVID on response and opt-in rates, resulting costs), and developed multi-family sample frame. Also developed site-level variable base degree day (VBDD) models to weather normalize energy bills.
- > **San Diego Gas & Electric Single-Family Affordable Solar Housing (SASH) Program and Disadvantaged Community Single-Family Affordable Solar Housing (DAC-SASH) Program Evaluation**  
Technical advisor for an evaluation of two programs that focus on increasing the number of solar installations on single-family affordable housing; one of the programs focuses on serving customers in disadvantaged communities. This project is for the California Public Utilities Commission (CPUC), sponsored by San Diego Gas & Electric.
- > **Residential HVAC/Domestic Hot Water (DHW) Performance and Potential Evaluation**  
For the Connecticut Energy Efficiency Board, worked on sample design and oversaw the sample frame development for a study to conduct metering at 150 sites, focusing on monitoring of both new efficient electric HVAC and water heating equipment. The Evergreen team's approach to long-term metering of HVAC and water heating equipment is designed to capture average electrical demand (kW and power factor) at 1-minute intervals for electric end uses.
- > **Energy Trust of Oregon Sampling and Weighting Training**  
Developed examples and exercises for sampling and weighting techniques in R to accompany lectures given for Energy Trust staff on sample design, sampling methods, and data weighting.

- > **San Diego Gas & Electric Multifamily Common Area Measures (MF CAM) NMEC Analysis for PY2019-2023**  
Project manager overseeing all billing analysis to estimate the energy savings attributable to a third-party energy efficiency program intervention of common area measures at multifamily properties. Annual analysis and reporting for five consecutive years.
- > **San Diego Gas & Electric Disadvantaged Communities Green Tariff (DAC-GT) and Community Solar Green Tariff (CSGT) Program Evaluations**  
Technical advisor for an evaluation of the Disadvantaged Communities Green Tariff (DAC-GT) and Community Solar Green Tariff (CSGT) programs for the California Public Utilities Commission (CPUC) Energy Division. The DAC-GT and CSGT programs, along with complementary programs, are intended to ensure that low-income households within DACs have opportunities to access clean energy.
- > **Southern California Edison Commercial New Construction Baseline Characterization and Market Potential Study**  
Technical advisor on primary and secondary research for a study to evaluate and determine commercial new construction baselines and electrification rates of adoption. This study examined potential, viable data sources to examine these baselines and rates of adoption at both the whole building and end-use levels.
- > **2022 California Investor-Owned Utilities and the California Public Utilities Commission Low Income Needs Assessment**  
As quantitative lead for an assessment of low-income rental households to understand their issues relating to energy, led the design and management of the market characterization and quantitative data analysis. Topics explored included energy use patterns, energy burden, disconnects, and bill arrearages.
- > **Commercial Building Stock Assessment Data Review and Summary Table Development**  
Managed data review and summary table development of the fourth commercial building stock assessment (CBSA) completed by the Northwest Energy Efficiency Alliance. Phase I of this project improved the CBSA data quality in the summary tables, streamlined analysis, and reduced the likelihood of analytic errors, while Phase II provided the reliable information that the Northwest Power and Conservation Council (NPCC) needs regarding commercial measures (for example, saturations and characteristics).
- > **Southern California Edison Commercial EV Fleet Adoption eMobility Research**  
Lead for segmentation analysis for a study of fleet decision-makers to better understand sizes and uses of fleets, decision-making practices concerning vehicle types, awareness and perceptions of electric vehicles in the medium- and heavy-duty vehicle classes, and barriers or drivers toward adoption of electric vehicles.
- > **Biennial Electric Conservation Achievement Review (BECAR) of the Puget Sound Energy Electric Conservation Program**  
Assisting with the evaluation report and UES reviews with an emphasis on tasks that involve statistical analysis and regression modeling for the biennial review of the Puget Sound Energy 2020-2021 Electric Conservation Program Portfolio; this project includes a review of deemed unit energy savings values used for prescriptive programs, a validation of year-end savings values documented in PSE's Annual Report, review of PSE's responses to recommendations made in the 2018-2019 BECAR cycle, and a review of PSE's responses to recommendations made in evaluation reports completed in 2018 and 2019.
- > **Southern California Edison Indoor Horticulture Industry Standard Measure Review**  
Co-Project manager for a follow-up measure review study of SCE's existing documentation and conducting in-depth interviews with participant and non-participant growers. This study assessed the need for continuing funding for LED incentives for indoor horticulture businesses.

- > **Avista Low Income Needs Assessment (Phase 1)**  
Managed a project to estimate the size and composition of the population in Avista's Washington State service territory that is eligible to receive benefits from one or more of Avista's energy assistance programs, utilizing only existing data sources. Evergreen assessed the current program penetration rates, which are the number of households that have received assistance as a proportion of the total estimated number of eligible households within the service territory.
- > **Pacific Gas and Electric Multifamily Energy Use Study for Codes and Standards Program**  
Analyzed data and conducted sampling for an energy use study of multifamily buildings in California, which includes energy audits at 90 buildings across the state. The site visits will include common areas and samples of tenant units. The data will be used to support the development of improved building codes.
- > **Southern California Edison Smart Thermostat Impact Analysis**  
Project manager for a study to estimate the energy savings of the smart (communicating) thermostats installed in residential single-family homes, relative to existing conditions, likely manual or programmable thermostats. Evergreen relied on a convenience sample of customers who were enrolled in Southern California Edison's Rush Hour Rewards demand response program, which offers customers incentives to purchase a qualifying energy-efficient smart thermostat that enables them to reduce their energy usage during peak demand events, in exchange for ongoing bill credits.
- > **Low Income Programmable Communicating Thermostat Time of Use Pilot Evaluation**  
Served as the analysis lead and managed the billing analysis for an evaluation of a pilot program focused on transitioning low-income customers to time of use rates. The pilot was being conducted across three utilities (Southern California Edison, San Diego Gas & Electric, and Pacific Gas and Electric).
- > **Southern California Edison NMEC Pre-Qualification Pilot Feasibility Study**  
Served as the analysis lead and managed the billing analysis and reporting for a study to conduct analysis of hourly interval baseline energy usage data and determine if a streamlined normalized metered energy consumption (NMEC) approach might be feasible to estimate energy savings for multiple locations across a single business entity in Southern California Edison's proposed pilot program. This included developing pre-screening procedures and adapting the AMI Customer Segmentation (AMICS) package to compare and contrast the relative error of various model and segmentation options by customer (i.e., chain) and individual branch (site).
- > **Southern California Edison Commercial Sector Building Decarbonization Market Characterization**  
Led the quantitative research for a study to characterize the market size and potential for addressing California building decarbonization goals through building electrification and by identifying the potential drivers and barriers for building decarbonization across different building types and operators.
- > **Avista Evaluation of Income Based Payment Program and Balance Management Arrangement Pilot Programs**  
Managed billing regression and assisted with project management for evaluations of two pilot programs designed to improve service to the low-income sector to understand the impact of the program on energy burden, disconnection rates, and the effectiveness of engagement methods. In addition to more quantitative impact analyses, Evergreen conducted surveys with customers and in-depth interviews with pilot program implementers including Community Action Agencies and Avista staff.
- > **Northwest Energy Efficiency Alliance Residential End Use Load Research Study**  
Developed a web tool to provide easy queries of the metering database with load shape visualizations at the minute, hour, and daily level for a residential energy monitoring field study including 400 on-site metering equipment installations across the Pacific Northwest. This study involves recruitment of participants, coordinating field staff, data quality control, and the development of a robust IT infrastructure and data entry tools.

- > **Energy Trust of Oregon Evaluation of the New Homes Ductless Heat Pump Pilot**  
Conducted billing analysis of Energy Trust of Oregon's New Homes Ductless Heat Pump (DHP) Pilot. Evergreen compared these results to energy modeling outputs to assess how well program engineering models estimate energy usage for the different DHP systems.
- > **Independent Audit of Energy Efficiency and Peak Demand Reduction Programs (2019)**  
Worked as part of the independent auditor team for the Public Utilities Commission of Ohio to verify the savings claimed by the Ohio electric utilities through their energy efficiency and demand response programs. The audit covered the annual program accomplishments over the 2014-2018 period and involved a review of the annual evaluation activities and the methods used to estimate energy savings.
- > **Southern California Edison Nest Summer Saver Pilot Impact Evaluation**  
Led an evaluation of an opt-in smart thermostat optimization program, which adjusted the temperature set points of existing thermostats across SCE's service territory. This project used the AMI Customer Segmentation (AMICS) model to estimate program impacts on whole building AMI energy use, estimate the program effect on HVAC run times, and assess the relationship between whole building impact estimates and HVAC run times.
- > **Southern California Edison Distributed Energy Resources (DER) Customer Profiling Research**  
Managed a project for SCE to develop a distributed energy resources (DER) customer-profiling tool and then provide insights into the characteristics and needs of future adopters; the overarching goal of this research was to inform future program efforts and expand DER adoption.
- > **Pacific Gas and Electric Multifamily Customer Advanced Metering Infrastructure (AMI) Data Analysis**  
Conducted billing analysis for a project to develop energy consumption load shapes for multi-family customers based on AMI billing data. These load shapes were used in a larger project that explored how demographic and cultural factors affected energy use in the multi-family sector.
- > **Southern California Edison AMI Billing Regression Study Phase I**  
Conducted billing analysis for a research study to determine the potential benefits of using hourly AMI consumption data in a billing regression model to estimate HVAC program impacts. This project resulted in the creation of the AMI Customer Segmentation (AMICS) model that utilizes a version of the random coefficients model and AMI data to estimate very accurate load shapes (within 1 percent of actual use) and develop estimates of energy savings.
- > **Pacific Gas and Electric AMI Billing Regression Study Phase 2**  
Served as analysis lead and managed the continuation of research from Phase 1 that utilizes the AMICS model to develop estimates of program impacts based on AMI billing data. Phase 2 expanded the use of the AMICS model to the commercial HVAC sector as well as expanded the use in the residential sector to estimate impacts from PG&E's Home Energy Reports Program.
- > **Alaska Medicaid Cost of Chronic Disease**  
Assisted with data preparation and analysis of Alaska's Behavioral Risk Factor Surveillance System (BRFSS) survey and Medicaid claims data to estimate the costs of eight chronic diseases to the Alaska Medicaid program.
- > **Sacramento Municipal Utility District (SMUD) Indoor Temperature Analytics**  
Assisted with the preparation of indoor temperature, irradiance, and metered electricity usage data. The models generated with these data are being used to predict the likelihood a home would be a good candidate for SMUD's retrofit Home Performance Programs based on Advanced Metering Infrastructure (AMI) data and indoor and outdoor temperature data for the home. SMUD is interested in cost efficient analytical approaches as an alternative to existing, but expensive and time consuming, engineering models.

- > **2016 California Investor-Owned Utilities and the California Public Utilities Commission Low Income Needs Assessment**  
 Performed research and analysis to estimate a modified energy burden statistic that takes into account the value of public benefits including housing subsidies, medical insurance, food stamps, security income, and temporary cash assistance. The needs assessment explored how low-income households address basic energy and non-energy needs, the degree to which different population segments face resource-related hardships, and their engagement with utility low-income programs.
- > **Northwest Energy Efficiency Alliance Rooftop HVAC Market Characterization Study**  
 Conducted in-depth interviews with commercial HVAC installers to assess the current commercial HVAC market in the Northwest and the potential for high efficiency condensing gas HVAC systems.
- > **Pacific Gas and Electric Home Energy Use Study for Codes and Standards Program**  
 Analyzed population data and conducted sampling for on-site survey and produced weekly survey disposition reports during data collection phase. Designed weights for analysis of equipment saturations and developed a fuzzy matching algorithm to link model numbers to the California Energy Commission appliance databases. Developed a web tool to provide interactive data visualizations of incoming end use metering data. The study covers the residential sector, encompassing all electricity and natural gas-using equipment, as well as building shell characteristics and the presence of distributed generation (i.e., solar photovoltaic). This study is utilizing a rigorous sampling scheme of 1,000 homes representative of the customer population. Sarah also was an advisor on multiple HEUS mini-studies including ones focusing on large clothes washers and induction stove tops.
- > **Oregon Department of Energy and Oregon Public Utilities Commission Biennial Report Evaluation**  
 Assisted with data collection and analysis for biennial and 18-month reports documenting spending of public purpose funds on energy efficiency and renewable energy projects funded in 2013, 2014, 2015, and 2016.
- > **State of Alaska Department of Health and Social Services Medicaid Forecasts**  
 Performed analysis of Alaska's Behavioral Risk Factor Surveillance System (BRFSS) and conducted research to estimate the size, composition, and cost of the Medicaid expansion, including enrollment forecasts by region and demographics.
- > **Northwest Energy Efficiency Alliance Heat Pump Water Heater Initiative Market Progress Evaluation Reports (MPERs) #1 and #2**  
 Analyzed program data to create sampling design for surveys and interviews with HPWH installers, purchasers, retailers, and distributors and analyzed survey results. Conducted literature review documenting trends in the Northwest HPWH market.
- > **Consumers Energy Impact Evaluation, Certification, and Economic Impact Analysis**  
 Evergreen project lead on the commercial and industrial impact evaluation, savings certification, and economic impact analysis of the full portfolio of programs from 2016 through 2021. Our impact evaluation tasks included on-site sample design, weighting, and calculation of gross adjustment factors.
- > **Energy Trust of Oregon Existing Buildings Program Process Evaluation**  
 Conducted in-depth interviews with commercial participants who installed prescriptive and/or custom measures, as well as with non-participants (i.e., lighting-only participants).
- > **Energy Trust of Oregon New Homes Process Evaluation**  
 Analyzed and reported on the results of a realtor web survey for the evaluation of the 2014-2015 New Homes Program and Energy Performance Score (EPS) brand for efficiently built single-family homes.

- > **Northwest Energy Efficiency Alliance Super-Efficient Dryers Market Characterization**  
For a study to explore market size and trends and investigate consumer awareness, potential interest, and willingness to try (and pay for) super-efficient dryers, conducted web survey disposition tracking, designed weights, and analyzed the data. The web survey included a structured stated choice analysis.
- > **San Diego Gas & Electric Demand Response Customer Evaluation**  
Assisted with the design, testing, and execution of a participant web survey covering three different but overlapping demand response programs. Analyzed and reported on the survey results.
- > **California Investor-Owned Utilities Integrated Demand Side Management (IDSM) Market Characterization Study, Residential and Small Commercial Markets**  
Assisted with design of participant and non-participant customer phone survey, and conducted analysis of survey results to determine motivations and opinions on the integrated approach to demand side management from the customer perspective.
- > **US Department of Energy Better Buildings Neighborhood Program Energy and Economic Impact Evaluation**  
Conducted billing regressions of commercial and residential building retrofits funded by the American Recovery and Reinvestment Act (ARRA)-funded Better Buildings efficiency programs covering over 40 grantees nationwide. Assisted with data analysis and preparation pertaining to building retrofits, utility billing, and weather.
- > **Integrated Demand Side Management Inventory**  
Created an inventory of integrated demand side management (DSM) programs and activities across the United States and all current programs in California.
- > **San Diego Gas & Electric Agricultural Market Study**  
Analyzed results of an agricultural population mail survey to gauge program awareness, participation, interest, and needs.
- > **Elliott State Forest Analysis of Alternatives**  
Constructed IMPLAN models for Coos County and the State of Oregon to determine the economic impacts of recreation, logging, hauling, milling, and forestry services on the local economy.
- > **State of Alaska Department of Health and Social Services: Diabetes Prevention and Control**  
Used Medicaid claim records to determine the impact of diabetes self-management education on Alaskan patients' Medicaid expenditures and utilization patterns. This required the utilization of regression analysis to compare the pre- and post-period spending of a self-selected treatment group to a control group.
- > **Sherman County Wind Farm Economic Impact Analysis**  
Built economic impact models in IMPLAN for Sherman County and the state of Oregon to determine the effects of construction and operations of local wind farms. Performed literature review of wind farm costs, analyzed historical economic indicators and local government revenue, and reported on results of the models and analysis.
- > **Public Utilities Commission of Ohio Independent Evaluation (2011-2014)**  
Worked as part of the Independent Evaluator team to review and verify the energy efficiency program evaluations and savings claims submitted annually by Ohio's four investor-owned utilities. Reviewed and commented on process and impact evaluation reports submitted to PUCO.
- > **Evaluation of the Hawaii Energy Conservation and Efficiency Programs**  
For the Hawaii Public Utilities Commission, conducted energy savings validation and verification activities for the 2012 and 2013 program year portfolio evaluations of Hawaii Energy's residential, commercial, and industrial energy efficiency programs. Tasks included conducting in-depth interviews, analysis of measure savings and TRM validation, reviewing invoices and inspection reports for claimed measures, analysis of survey data and on-site inspection

results, and billing regression of submetering projects. Developed sampling plans for phone and on-site surveys for program year 2013.

- > **Black Hills Energy Comprehensive Program Evaluations**  
Analyzed and reported survey results for Black Hills Energy's Direct Install Lighting, Online Audit, and Residential Appliance programs in Colorado. Conducted in-depth interviews with direct install lighting contractors and program participants.
- > **Pacific Gas and Electric Lighting Innovation Midstream Trial Evaluation**  
In support of an evaluation of PG&E's commercial LED midstream trial (similar to a pilot program), conducted in-depth interviews with participating distributors and reported findings.
- > **Cover Oregon Enrollment Forecast Review**  
Assisted with a third-party review of Oregon's state health insurance exchange enrollment forecasts. Researched insurance exchange enrollment trends in similar states and applicable modeling techniques.
- > **Idaho Power Company Custom Efficiency Program Evaluation**  
Interviewed participants in the Wastewater Energy Efficiency Cohort and Refrigeration Operator Coaching for Energy Efficiency programs, in support of process and impact evaluation activities of a commercial and industrial custom program for Idaho Power. Conducted initial file review of documented project characteristics and savings calculations for custom commercial projects, as preparation for engineering review and on-sites.
- > **FortisBC Energy Diet Program Evaluation**  
Analyzed and reported the results of the program participant phone survey, including analysis of free ridership and program spillover.
- > **FortisBC Heat Pump Program Impact and Process Evaluation**  
Analyzed and reported the results of the FortisBC Residential Heat Pump program phone survey, including analysis of program spillover and free ridership. Conducted in-depth interviews with heat pump installation contractors.
- > **Process Evaluation of San Diego Gas & Electric's Plug Load Appliance and Lighting Field Services Efforts**  
Analyzed store visit and demonstration reports, and assisted with writing interview guides for in-depth interviews with retailers as part of the field services evaluation of SDG&E's Plug Load Appliance and Lighting Programs.
- > **Northwest Energy Efficiency Alliance Next Step Home Baseline Estimation Study**  
Analyzed and reported on historical and forecasted new home construction activity in the Northwest.

## SELECTED PUBLICATIONS AND PRESENTATIONS

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- > Chapman, Liandra, Kayla Banta, Ted Helvoigt, and Sarah Monohon (Evergreen Economics); Lauren Gage (Apex Analytics); Santiago Martin Rodriguez-Anderson (SBW); Hanna Lee (Bonneville Power Administration). 2024. "SEM - Break Down Barriers and the Savings Persist." Paper presented at the American Council for an Energy-Efficient Economy (ACEEE) Summer Study on Energy Efficiency in Buildings, Pacific Grove, California.
- > Monohon, Sarah, Grace Peralta, and Nick Durr. 2024. "Uplifting Rentals: Decarbonizing Subsidized Housing." Paper presented at the ACEEE Summer Study on Energy Efficiency in Buildings, Pacific Grove, California.
- > Monohon, Sarah, Tami Rasmussen, Mary-Hall Johnson, Emrah Ozkaya, and Ryan McFadyen. 2022. "To BE or not to BE? Market Potential and Feasibility of Commercial Building Electrification." Paper presented at the International Energy Program Evaluation Conference, San Diego, California
- > Monohon, Sarah, Dallen Coulter, Ted Helvoigt, and Ross Donaldson. 2020. "Calculated Risk: Chain Businesses with Pay-for-Performance." Paper presented at the virtual ACEEE Summer Study on Energy Efficiency in Buildings.

- > Monohon, Sarah and Ted Helvoigt. 2019. "Predictions with Restrictions: C&I Metered Energy Consumption." Paper presented at the International Energy Program Evaluation Conference, Denver, Colorado.
- > Monohon, Sarah, Prapti Gautam, and Ross Donaldson. 2019. "When Are Smart Thermostats a Smart Investment?" Paper presented at the International Energy Program Evaluation Conference, Denver, Colorado.
- > Helvoigt, Ted, Sarah Monohon, and Ross Donaldson. 2019. "Identifying Future Adopters of Solar, EV, and Green Power." Paper presented at the International Energy Program Evaluation Conference, Denver, Colorado.
- > Wudka, Martha and Sarah Monohon. 2019. "Smart Transitions – Can Smart Thermostats Help Low-Income Customers Switch to TOU Rates?" Paper presented at the International Energy Program Evaluation Conference, Denver, Colorado.
- > Price, Kevin, Sarah Monohon, Mary Anderson, and David Clement. 2018. "M&V 2.0: Leveraging Machine Learning to Improve Energy Savings Estimates." Paper presented at the ACEEE Summer Study on Energy Efficiency in Buildings, Pacific Grove, California.
- > Cornwell, John, Steve Grover, and Sarah Monohon. 2017. "Taking Control: Using AMI Data to Estimate Impacts from Peer Comparison Programs." Poster presented at the International Energy Program Evaluation Conference, Baltimore, Maryland.
- > Monohon, Sarah and Martha Wudka. 2017. "Which Switch? Choosing Between Smart Thermostats, Switches, and Alerts." Poster presented at the International Energy Program Evaluation Conference, Baltimore, Maryland.
- > Grover, Stephen, John Cornwell, Sarah Monohon, and Ted Helvoigt. 2017. "Take It From the Top! An Innovative Approach to Residential and Commercial Program Savings Estimation Using AMI Data." 2017. Paper presented at the International Energy Program Evaluation Conference, Baltimore, Maryland.
- > Helvoigt, Ted, Stephen Grover, John Cornwell, and Sarah Monohon. 2016. "A Smart Approach to Analyzing Smart Meter Data." Paper presented at the American Council for an Energy-Efficient Economy Summer Study on Energy Efficiency in Buildings, Pacific Grove, California.
- > Grover, Stephen, Ted Helvoigt, John Cornwell, and Sarah Monohon. 2015. "Random Walk to Savings: A New Modeling Approach Using a Random Coefficients Model and AMI Data." Paper presented at the International Energy Policy & Programme Evaluation Conference, Amsterdam, the Netherlands.
- > Koson, Matt, Stephen Grover, Sarah Monohon, and Edward Vine. 2015. "Better Buildings, Better Economy: An Economic Impact Analysis of a Federal Retrofit Program." Paper presented at the International Energy Program Evaluation Conference, Long Beach, California.