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For over 30 years I have had the pleasure of working with clients to offer personalized consulting services in the clean energy sector. My focus has been the advancement of an efficient, interconnected electric grid that integrates renewable energy, EV charging loads, demand response and other distributed energy resources.

Energetics

Ryn has been working for the past year at Energetics as an Evaluation Lead working on EV charging infrastructure programs that include leading edge managed charging solutions. This includes evaluation of the collective California Statewide programs that represent over \$1B in EV charging infrastructure investment. Evaluation includes estimation of program induced petroleum displacement, GHG reductions, grid impacts from EV charging at various times, charging port utilization and program performance.

Ryn Hamilton Consulting

Technical Advisory Committee. Ryn is a member of Southern California Edison's Dynamic Rate Pilot TAC engaged in advancing demand flexibility solutions.

Electric Grid Integration. Ryn has helped develop and implement distributed energy resource (DER) projects, evaluate options for providing grid ancillary services and more.

Demand Response. Ryn has helped clients develop strategic plans surrounding demand response, estimation of market potential, participation in ISO/RT0 markets, analysis of baseline methodologies and more.

Strategy. The industry is changing quickly and organizations are facing complex strategic challenges. Ryn has helped clients bring relevant issues and threats into focus to achieve competitive advantage.

Energy Efficiency. Ryn has helped utilities and jurisdictions develop programs grounded in best practice and translate ideas into meaningful action.

Impact Evaluation. Ryn is an econometrician steeped in advancement of the practice of evaluation, measurement and verification that artfully blends mathematics, engineering and behavioral science.

Project Snapshots

- Impact evaluation of EV charging infrastructure programs which includes leading edge managed charging solutions.
- Assessed the financial and technical potential for a major demand response provider to sustain market growth and procure additional investment.
- Represented clients on ISO-NE's Demand Response Working Group.

- Prepared technical briefs on batteries, thermal storage and other leading technologies.
- Assisted a Massachusetts utility in developing scopes of work for eight peak reduction demonstration projects.
- Provided an assessment of a client's plug-in vehicle charging station technology to provide grid ancillary services.
- Analyzed the market potential for heat pump water heaters.
- Developed profiles of New England's top manufacturing sectors to assess strategic electrification and demand response potential.
- Provided an independent assessment of the technical capabilities and market potential of an interactive energy management system to manage loads and provide grid ancillary services.
- Performed an independent assessment of contractor regression models used to estimate kW impacts from four demand response programs.
- Participated in development of NAESB national and state standards for measurement and verification (baselines) for demand response and energy efficiency resources.
- Participated in development a business plan for a geothermal heat pump program in Madrid, Spain.
- Benchmarked a utility's clean power electrification pathway based on analyses of initiatives in other leading states.
- Analyzed a PJM capacity price fluctuations and its implications for demand response.
- Examined the implications of state legislation on demand side resources in the wholesale market.
- Managed a Geothermal Heat Pump Consortium's grant with the EPA.
- Participated in development of a business plan for a state's smart energy design center.
- Participated in the development of customized choice experiments supporting a mass transit market research study.

Conference Presentations and Panels

Hamilton, R. "[California EV Infrastructure Programs and the Evolving Role of Dynamic Rates.](#)" EUEC Charge Expo. October 2022.

Hamilton, R. "Energy Storage and the Integration of Renewables and Distributed Energy Resources." Grid Modernization Forum, moderator.

Dobratz, D., Hamilton, R. "Market Transformation and the Distribution System Grid." ACEEE National Symposium on Market Transformation.

Hamilton, R. "Demand Response Gets Smarter: Realizing the Potential of DR on the Distribution System." ACEEE National Symposium on Market Transformation, moderator.

Hamilton, R. "Workshop on Smart Electric Vehicle Charging." Moderator for session on ISO/RT0 frequency regulation and reserves markets, Union of Concerned Scientists.

Hamilton, R. "Policy and Regulatory Change for Advancing the Smart Grid." Grid Modernization Forum, conference chair and a session moderator

Dobratz, D., Hamilton, R. "How Evolving State Policies are Fostering New Technology Investment for Control of Distribution System Loads and Advancing Grid Modernization." Grid Modernization Forum.

Hamilton, R. "Renewable-Centric Grid of the Future." Smart Grid Observer, Virtual Summit.

Hamilton, R. "Demand Response and Ancillary Services Opportunities for Electric Vehicle Charging Stations." ACI New Generation Demand Response and Ancillary Services conference.

Dobratz, D., Hamilton, R. "New Generation of Demand Response; Faster Response with Targeted Load Control – Utility Interface Business Models." ACI New Generation Demand Response and Ancillary Services conference, workshop.

Hamilton, R. "Leveraging Tools to Talk about Smart Grid and Climate Change." National Summit on Smart Grid and Climate Change, workshop.

Hamilton, R. "Ancillary Services Market Opportunities." Peak Load Management Alliance conference.

Martinez, M., Hamilton, R., "Role of Demand Response Baselines in Estimating Participant Impacts." Energy Utility and Environment conference.

Hamilton, R. "IDSM Developments and Early Lessons." Association of Energy Services Professionals webinar, moderator of panel on integrating demand response.

Martinez, M., Hamilton, R. "Evaluation, Measurement and Verification Variations Across Jurisdictions ." Energy, Utility and Environment conference.

Hamilton, R. "NAESB Standards for Measurement and Verification of Demand Response." Association of Energy Services Professionals, webinar.

Hamilton, R. "Demand Response Monitoring and Verification." Peak Load Management Alliance, moderator.