DAYMARK
ENERGY ADVISORS

AREAS OF EXPERTISE

Demand Side Management

Evaluation, Measurement, & Verification (EM&V)

Clean Energy Strategy and Policy

Wholesale Market Analytics

Financial Evaluation of Energy Assets

BACKGROUND

Daymark Energy Advisors
2016-Present

DNV GL
2014-2016

EDUCATION

Ph.D., Energy Economics
The Pennsylvania State University

M.S., Energy Economics
The Pennsylvania State University

B.A., Physics and Economics
Illinois Wesleyan University

Suman Gautam, Ph.D.

Economist and Senior Consultant

Suman works with clients on commercial, regulatory, and policy-focused projects in both wholesale and retail energy markets. He applies microeconomic and econometric analysis to market design, pricing, supply and demand forecasting, and policy evaluation. He has extensive experience in the energy efficiency sector in performing process and impact evaluations, conducting market transformation studies, reviewing DSM Plans and incentive setting methodologies, and participating in stakeholder process.

SELECTED CLEAN ENERGY EXPERIENCE

- Led an effort to enhance utilities' market analysis capability by building and understanding energy efficiency program participation and performance metrics.

- Evaluated the impact of Green Mountain Power's (GMP) emergency Demand Response (DR) programs on residential customers' electricity consumption during a two-year pilot program in 2012–2013.

- Analyzed the impact of energy efficiency programs qualitatively and quantitatively to evaluate the implementation process, assess participation satisfaction, and estimate energy savings. The process evaluation method consisted of in-depth-interviews of program managers, implementers, and participants. Energy efficiency savings were estimated through rigorous statistical and econometric models. The efforts included creating a dataset by combining information on electricity usage, efficiency programs, and weather, accounting for weather-dependent consumption, and then estimating efficiency related savings with the help of difference-in-difference models.

- Analyzed the impact of renewable portfolio standards (RPS) – a state level policy that requires utility companies to include a minimum percentage of renewable or "alternative" electricity – on reducing carbon emissions and how this impact varied with certain RPS characteristics.

- Analyzed potential spillover and free-ridership savings associated with LED lighting programs for Commercial and Industrial customers.

- Analyzed the impacts of market restructuring and competition on CO_2 emissions in the Pennsylvania, New Jersey, and Maryland. Performed literature search, created database, and crafted SAS programs to clean and combine large scale datasets consisting of plant-level generation and emissions information sourced from the US Energy Information Agency and Environmental Protection Agency.