

Due to consumer pressure for energy cost reductions, combined with regulatory changes and environmental concerns, both electric and gas utilities must work to ensure that energy is consumed in an efficient manner.

The main objective of the Demand Side Energy Management Program (DSMP) is to assist electrical and gas utilities, as well as governmental organizations, in helping consumers achieve energy and demand reduction through the analysis, investigation and demonstration of Demand Side Management (DSM) technological applications. Through this Interest Group, participants are able to pilot and assess new technologies and develop new standards and guidelines for energy efficiency and DSM measures, as well as provide new technology solutions for customer problems.

Topics & Issues

1. Sectors Covered: Commercial, Residential & Industrial
2. End-Use Technologies, including Lighting, Motor Systems, HVAC, and Energy Management Systems
3. Demand Side Management
4. Information and Best Practices
5. Supporting Regulations, Codes & Standards
6. Evaluation, Measurement & Verification

Technical Advisor



Dr. Eric Mazzi has over 25 years of experience in applied engineering practice, policy research, and teaching. He worked 2007-2010 in BC Hydro's Power Smart Engineering (PSE) group, and has continued performing technical reviews for PSE on a contract basis since 2010.

Dr. Mazzi is a registered professional engineer in British Columbia and the U.S., and is a CEM. He completed a doctoral training fellowship in UBC's Bridge program (engineering, policy & public health), a one year teaching fellowship in UBC's University Sustainability Initiative, and was a Research Collaborator in UBC's Sustainable Building Science Program. From 2009-2014, Eric Mazzi was the lead instructor in UBC's Masters of Engineering Clean Energy Program and is currently an Adjunct Professor of Energy Management with the New York Institute of Technology.

Projects

- Analysis of Attribution of Energy Savings at the End of Persistence
- Estimating Associated Peak Demand Savings from Energy Conservation Measures
- Energy Efficiency Guide Revisions: Electric Motors and Variable Frequency Drives
- Residential Self-Programmable Thermostats
- Energy Benchmarking Model for Refrigerated Warehouses
- Energy Efficient Lighting Guide Update
- Life of Energy Efficient Measures
- M&V for Demand Response Best Practices Guide
- Utilities Guide to Plug Load Proliferation
- Best Practices for Solid State Lighting and Adaptive Control Technologies for Street Lighting Utility Rates
- Energy Savings Potential Using Occupancy Sensors
- Variable Speed Driver (VSD) Calculator Tool Development
- Residential HVAC Zoning Controls
- Pre-Feasibility Study on Gas Heat Pumps
- Review of Packaged Roof Top Equipment (RTU) Upgrades for DSM Utility Programs
- Energy Savings in Buildings with Energy Management Systems and Advanced Fault Detection and Diagnostics
- Quantifying Energy and GHG Savings with Commercially Available Micro-CHP in the Residential and Commercial Sectors



Annual Activities

- 2 Meetings
- Quarterly Conference Calls
- Webinars
- Collaborative Projects

*Participation is open to Electrical Utilities, Gas Distributors, and Government Agencies.
For a complete project listing, please visit www.ceati.com/DSMP