
Cal Pasvogel, P.E.
Project Development & Management

*B.S. Mechanical
Engineering
University of Minnesota
1993*

*Professional Engineer
State of Minnesota*

LEED AP

Cal's career ranges from product design and development to energy project development. His current project development experience and passion is in resource conservation and consists of development and justification through cost savings produced in the areas of energy, water, wastewater, and operation and maintenance cost reductions.

His experience includes conceptual design, troubleshooting, retrofit, and redesign of HVAC, controls, and hydronic systems, energy audits, feasibility studies, utility rate opportunities analysis, building computer simulations, field measurement, documentation, and cost estimating.

Cal has completed over 100 energy efficiency projects in food and agri-processing, textile, printing, commercial, and institutional facilities such as public schools and universities.

Cal was also the primary LEED facilitator on four new construction LEED projects. His responsibility included making sure that sustainability and resource conservation was a priority in every step of the construction process from design to final construction.

Relevant Experience

Selected Projects

Xcel Energy, Minneapolis, Minnesota: Custom Efficiency Program technical analysis and support for large commercial and industrial customers in Minnesota

Alliant Energy, Madison, Wisconsin: Demand Side Management program support for utilities serving Iowa, Minnesota and Wisconsin, including new construction and industrial program development analysis verification and reporting

Wisconsin Department of Administration, Madison, Wisconsin: Evaluation and verification of the Wisconsin Focus on Energy commercial and industrial program

Iowa Energy Bank (IA DNR), Des Moines, Iowa: Feasibility studies for state, local government and non-profit facilities

Trane Co., La Crosse Wisconsin: Developed software for product testers for latest chiller controls platform (CH530). Earned US and International patent.

Chemlawn/Trugreen, Columbus Ohio: Developed chemical spray gun which reduced application of herbicide and insecticides reducing environmental impact while saving millions of dollars annually in chemical costs. Earned US patent for design.

Energy Analysis and Studies

Site investigation to identify energy efficiency projects

Building and system energy simulations and comparison of energy efficiency alternatives

Building energy modeling experience with DOE-2 software including VisualDOE and E-quest

Technology investigation to determine the viability and application of new technologies

Provided commissioning and verification of energy efficiency improvements for ground source heat pump system at Caledonia, MN High School