Sustainability
General Experience

M/E Engineering has studied and designed a vast variety of energy conservation related technologies and strategies that support carbon reduction and sustainable building engineering. Our analyses have ranged from simple bin hour calculations to full college campus computer modeling addressing items such as high performance lighting and lighting controls, HVAC and DHW system options, control system modifications, electrification, photovoltaics, geothermal, heat pump and VRF technologies, etc. Today's building environment demands energy efficiency and sustainability as a design prerequisite. At its core, sustainability is part of our practice.

M/E Engineering provides a wide range of services for sustainable building engineering, design and energy conservation:

- Building Energy Audits
- Utility Usage Assessments
- Investment Grade Energy Studies
- GHG Emissions Inventory and Climate Action Plans
- Energy Conservation Master Planning and Design
- Integrated Whole Building Energy Modeling
- Utility Rate Schedule Analysis
- Energy Grant and Incentive Procurement
- Utility Monitoring and Savings Verification
- Net Zero and Net Zero Ready Design
- USGBC LEED, PHIUS, and Energy Star Design and Administration
- Electrification Solutions

Green design isn't just good citizenship, its good business. We offer green building solutions that create a healthy environment, increase energy efficiency and respect the environment.

Every M/E client who is interested in green design is given a range of practical options for reducing energy consumption and maintenance costs, thus incorporating life-cycle analysis in systems selections. Utilizing the latest computing technology, materials and processes, we can incorporate green building solutions that fit the needs of every client.

LEED, PHIUS, And Energy Star Design Services

With thirty (30) LEED accredited professionals, a Certified Passive House Consultant, certified energy managers, building energy modeling, audit, and commissioning professionals, and a multitude of project experience, M/E Engineering has the experience and knowledge to assist you in securing LEED, PHIUS, and Energy Star certification and program support for your existing building or new construction project. These programs provide building Owners and operators the tools required to have an immediate and measurable impact on their buildings performance. Certified buildings provide significant advantages to building owners and operators.

- Are built as designed and perform as expected
- Have lower operating costs and increased long term asset value
- Provide a healthy and comfortable environment for occupants
- Conserve energy and water use
- Reduce harmful greenhouse gas emissions
- Qualify for tax rebates and other incentives
- Demonstrate an Owner's commitment to environmental consciousness, energy conservation, and sustainability

Sustainability:

M/E has always diligently represented clients' interests in maximizing energy efficiency and designing sustainable building systems that operate cost effectively with the minimum amount of maintenance possible. We were one of the first 100 members of the United States Green Building Council and have a dedicated focus toward efficient, sustainable building design. M/E Engineering has extensive experience in not only the design of new and renovated buildings to Green, LEED, PHIUS, and Energy Star standards, but also in the documentation required to earn certification. Use of 3-D design tools, total building energy modeling, CFD modeling and an in-house commissioning team allow complete integration of the building MEP systems with the architectural and site components. Our entire staff, led by our Accredited and Certified Professionals and Professionals with speicalty, can utilize these tools to produce a facility which maximizes sustainability and is certifiable through these program processes.

M/E Engineering can provide the following LEED, PHIUS, and Energy Star Building Certification, Administration, and Program Support services:

- Determine building certification/program eligibility
- Certification/Program credit interpretations
- Building design analysis and computer modeling
- Existing building conditions assessment
- Energy Star analysis
- Retro-commissioning services
- Green cleaning policies
- Building maintenance measure policies
- Preparation and submission of certification / program application documentation
- Responses to certification review questions
- Certification appeal assistance if required
- Operations and Maintenance recommendations