

SUSTAINABLE DESIGN – BUILDINGS



Finding sustainable solutions for buildings

Offering sustainable solutions for new and existing buildings, Hanson's team of engineers, architects and planners can help you achieve your goals by taking an integrated approach to implementing sustainable design methodologies.

Hanson provides a range of sustainable design services for buildings, from assisting with LEED® certification, value engineering and renewable energy sources to life cycle cost analysis, building systems commissioning, and energy system design services.





Working to create solutions for you

We understand that experience and training matter. That's why Hanson has staff accredited by programs including LEED® AP, Certified Commissioning Authority (CxA), Certified Energy Manager (CEM), Qualified Commissioning Process Provider (QCxP), and many others.

Our team also uses methodologies and approaches which are based on protocols established by the U.S. Green Building Council (USGBC); American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE); and other nationally recognized organizations.

Hanson offers a variety of sustainability services, including:

- energy audits, studies and analyses
- LEED® certification assistance
- building systems commissioning and retro-commissioning
- life cycle cost analysis
- controllable systems design
- lighting system design
- energy modeling and conservation
- materials selection assistance
- envelope – thermal insulation analysis
- measurement and verification
- HVAC system design
- renewable energy systems implementation
- indoor environmental quality analysis/upgrades
- thermal storage system design
- program/project management

Highlights of our experience

Our sustainable building design projects include:

- energy and water audits (millions of square feet) – studies and analyses
- LEED® Gold environmental education center – commissioned energy usage systems including solar heating, photovoltaic and rainwater harvesting systems
- partnerships with energy services companies (ESCO) for performance contracting – energy studies and retrofit designs
- thermal storage systems – studies and designs for both water and ice storage systems
- central energy plants – upgrading equipment, pumping distribution and control strategies
- large solar systems for heating and cooling – design and instrumentation

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