

Key Solar, LLC – Solar Projects

Client:	Key Solar, LLC
Location:	Multiple Locations
Scope:	Electrical consulting engineering services including the preparation of electrical drawings for the connection of proposed solar arrays, including the following: provide electrical wiring sizes, conduit sizes and connections to the existing electrical service equipment; incorporating changes, review design meets the National Electrical Code; provide a 100% Review Set and incorporate any revisions into a Permit Set; provide stamped electrical Construction Documents; prepare electrical specifications, on drawings; prepare as-built drawings at completion of the project, from contractor's markups; project deliverables shall include the one-line diagram as well as the service upgrade documents.

Kasanof Geothermal Well HVAC System

Client:	WinnResidential
Location:	Roxbury, MA
Scope:	Mechanical and Electrical consulting engineering services for hot water piping to include: new piping from hot water boilers to domestic hot water heat exchanger and new power for the new HVAC equipment.

Dorchester Food Co-op Electrical Fit-Out

Client:	CoEverything, LLC
Location:	Boston, Massachusetts
Scope:	Electrical consulting engineering services for fit-out of an existing base building space for an approximately 4,200 front house space and 1,800 back house space food co-op space to include: lighting, power, fire alarm including fire protective signaling and automatic fire detection systems, and life safety systems.

Jones Public Library – Sustainability

Client:	Finegold Alexander + Associates
Location:	Amherst, Massachusetts
Scope:	Mechanical and Electrical consulting engineering services for the investigation of on-site renewable source options, rebates, total power requirements including: solar roof capacity and geothermal wells feasibility. The feasibility study included the existing 40,000 square foot library and a 24,000 square foot addition.

Hillside Center for Sustainable Living

Client:	Hillside Living, LLC
Location:	Newburyport, Massachusetts
Scope:	Electrical consulting engineering services for project consisting of (4) residential buildings with a total of 46 units, barn, YWCA, greenhouse and common house to include: site electrical design, wiring of recycling pumps, sewer pump station, power distribution throughout site, site lighting circuiting; coordination with the photovoltaic designers; apartment low voltage systems design including telecommunications, intercom and television wiring design including Smart panels in each apartment, wiring within the apartments, devices within apartments; fire alarm including fire protective signaling and automatic fire detection systems; and life safety systems.

Energy Conservation Measures – Building 7 & 9

Client: UTC Aerospace Systems
Location: Westford, Massachusetts
Scope: This evaluation included a review of the existing systems, building system documentation, design drawings, equipment submittals, and operations manuals followed by the preparation of a report outlining the findings of the evaluation, a detailed scope of work for each recommended energy conservation measure, estimated construction costs and estimated energy savings.

Fire Department HVAC & Energy Efficiency Improvements

Client: Town of Sherborn
Location: Sherborn, Massachusetts
Scope: HVAC design for the renovations included steam to hot water conversion including boilers, insulated piping systems, heating coils in existing air handling units and controls, demolition and replacement of existing outdoor air ductwork and controls properly sized for economizer operation of the air handling units, and removal and replacement of DX cooling systems including outdoor air cooled condensing units, insulated refrigerant piping systems, DX cooling coils in existing air handling units and controls. Plumbing design consisted of demolition and replacement of existing domestic hot water heater and non-potable water and gas piping systems to new mechanical equipment. Electrical design included power to support the new mechanical equipment.

Wellness Center at Phillips Andover Academy

Client: Shepley Bulfinch
Location: Andover, Massachusetts
Scope: Mechanical and Electrical systems including geothermal HVAC for new 17,000 square foot Wellness Center. Heating and cooling provided by water to air heat pumps, water to water heat pumps, water to refrigerant heat pumps utilizing geothermal energy. Geothermal energy usage required the installation of vertical piping wells and underground piping extended from the building site to the inside face of the building mechanical room wall by others to utilize the earth's natural soil temperature to provide condenser water to individual ground source water heat pumps throughout the building.
Construction Costs: \$6,200,000

Youville House – Cambridge

Client: Co-Energy
Location: Cambridge, Massachusetts
Scope: Services included a complete evaluation of mechanical and electrical systems including written analysis of code requirements, basis of design, project phasing and systems alternatives for development of proposed mechanical and electrical systems for the proposed separation of utilities including new boiler plant, chilled water plant, fire protection service and 250 kW Cogeneration system for an assisted living facility. Cogeneration waste heat was used to preheat to the heating hot water boilers, domestic hot water system and an absorption chiller
Construction Costs: \$2,200,000

Hamilton College – Emerson Hall

Client: Bruner/Cott & Associates, Inc.
Location: Clinton, New York

Sustainable/Energy Conservation Systems

Scope: HVAC, Plumbing, Fire Protection and Electrical consulting services for the design of renovations to an existing 32,000 square foot student center and administrative office building including a geothermal water cooled variable refrigerant heating/cooling system.

Construction Costs: \$14,500,000

Berkshire Hall at The Berkshire School

Client: Finegold Alexander + Associates Inc.

Location: Sheffield, Massachusetts

Scope: Mechanical and Electrical systems design for the design of renovations/additions to an existing 42,000 square foot classroom and office building including active chilled beams for building heating, cooling and ventilation.

Construction Costs: \$12,400,000

Harvard Business School – Wyss House

Client: Baker Design Group

Location: Boston, Massachusetts

Scope: HVAC, Plumbing and Electrical consulting services for the design of renovations to the 5,000 square foot graduate study building including HANSA flat panel air conditioning system.

Construction Costs: \$2,400,000

Wellesley College - Trade Shops

Client: Wellesley College

Location: Wellesley, Massachusetts

Scope: Mechanical and Electrical systems design, including HANSA flat panel cooling system for new 17,600 square foot trade shop building including offices, shops, locker rooms, and meeting rooms.

Construction Costs: \$2,400,000

Sunderland Public Library

Client: J. Stewart Roberts Architects

Location: Sunderland, Massachusetts

Scope: Mechanical and Electrical systems design for a new 9,600 square foot library including geothermal heating/cooling system.

Construction Costs: \$1,900,000

Wellesley College – Pendleton Hall

Client: Wellesley College

Location: Wellesley, Massachusetts

Scope: HVAC consulting services for the design of renovations to an existing 48,000 square foot classroom and office building including HANSA flat panel air conditioning system.

Construction Costs: \$6,500,000