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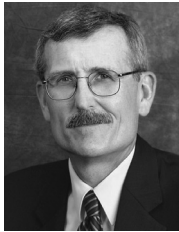


International Brotherhood of Electrical Workers • www.the103advantage.com

Electrical Contractors Association of Greater Boston, Inc. | 106 River Street, West Newton, MA | 1-877-NECA-IBEW (632-2423)

POWERPOINTS

PV/Solar Electric Installations Require the Training and Knowledge of Licensed Electricians



Glenn Kingsbury
Executive Manager

For the users of photovoltaic (PV) systems, business and residential customers alike, it is critical that those who perform PV installations have the proper training and experience. It is also vital that oversight of solar electric projects is provided by qualified wire inspectors that examine all aspects of the electrical installation. It is a matter of protecting public safety as well as having assurance that an appropriate, quality solar electric installation has been provided.

There are those that are trying to downplay the importance of hav-

ing qualified personnel install PV systems and are seeking to exempt photovoltaic/solar electric projects in Massachusetts, via House Bill 1004, from existing state regulation and oversight. NECA remains fully in support of the existing regulations that affirm that solar installations are indeed electrical installations and therefore must be installed by trained and licensed electrical professionals.

The installation of photovoltaic power systems is well covered by what has long been State law in Massachusetts - M.G.L. Ch. 141S 1. The statute reads, "No person, firm or corporation shall enter into, engage in or work at the business of installing wires, conduits, apparatus, fixtures or other appliances for carrying or using electricity for light, heat

or power purposes, unless such person, firm or corporation have received a license and a certificate therefore, issued by the state examiners of electricians and in accordance with the provisions hereinafter set forth." The language of this statute is unambiguous. It certainly applies to the installation of photovoltaic systems, which require wiring to enable the conversion of sunlight into electricity, which is used to light, heat and power our homes, educational facilities, and businesses.

For the last 96 years, the contractors of the Electrical Contractors Association of Greater Boston (NECA) have abided by the regulations of the State Examiners of Electricians. We have gained the necessary training and experience

to qualify as "Master Electricians." In a 2009 ruling, The Massachusetts Board of State Examiners of Electricians (BEEE) reinstated its determination that photovoltaic systems in Massachusetts are required to be installed, repaired and maintained only by a licensed journeyman electrician or a properly supervised apprentice. It is a determination that will continue to serve the Commonwealth and its citizens well.

NECA and our electrical industry partners, the IBEW, are well prepared to meet the increasing demand for photovoltaic installations. We have, for years, been training apprentices and journeymen electricians in photovoltaics. The contractors of our Association have adeptly performed dozens of

solar installations, just a few of which are documented on these pages. These PV projects, and many others that are underway by our experienced electrical contractors, will continue to positively impact the business community and residential customers throughout the region for years to come. They are projects that have been and will be installed to meet all Electrical Codes and specifications. We applaud the State Board of Electrical Examiners for their ruling that confirms that PV system installations be handled by properly trained personnel, and with the oversight of electrical examiners and wire inspectors. NECA looks forward to continuing to build a safer, brighter and renewable future for Massachusetts.

NECA Contractors Leading the Way in Solar Projects in Greater Boston

Lighthouse Electrical Completes Design/Build 78.54kW Solar Project at Planet Subaru in Hanover, MA

First Subaru Showroom in US Powered by PV; Engineer: ART Engineering, Worcester, MA

HANOVER, MA - Lighthouse Electrical Contracting, Inc. of Rockland, MA has recently completed solar installations at the Planet Subaru dealership in Hanover. The 78.54kW system is comprised of 374 Evergreen Solar panels mounted to the building's 9,200 sq. ft. roof via a ballasted Sunlink roof-mount system - specified due to its lack of roof penetration; Satcon solar inverters; and a Solectria data acquisition system.

Lighthouse PM Newell Thomas and Foreman Billy Norcott headed a crew of 5 electricians based out of Local 103. The project commenced in

mid-January and was completed in late April 2011. The system will supply about 85,000kW of electricity per year, which represents approximately 40% of the dealership's energy needs.

The Subaru dealership, owned by brothers Jeff and John Morill, has won several awards for their environmentally friendly approach to their dealership, including the U.S. Environmental Protection Agency's Energy Star Small Business Award and USA Today's and National Auto Dealer Association's Dealer Innovation Award.

J. F. White Electrical Completes WELCO 75.26kW PV System in Stoughton, MA

FRAMINGHAM, MA - The design/build project included J. F. White's solar array electric energy analysis, development of schematic design, performance calculations, permit filing, and DG interconnection application. The six (6) array PV system is comprised of 390 Kyocera 235-watt PV modules mounted on a Unirac HD rail racking system, utilizing four (4) 13kW and two (2) 15kW Solectria inverters. J. F. White also provided system commissioning and on-site training.

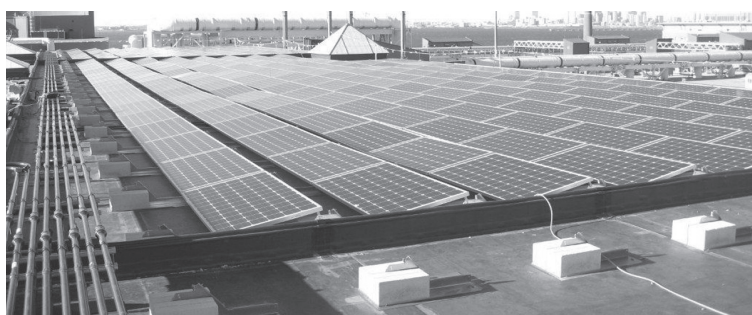
J. M. Electrical Installs 32.34kW Solar Electric System at Governor's Academy in Byfield, MA

LYNNFIELD, MA - NECA Boston contractor J. M. Electrical Co., Inc. of Lynnfield completed the installation of the Governor's Academy PV system in a 3-month project in the late 2010. The company's field crew of 5 electricians from IBEW Local 103 was supervised by PM Adam Palmer and Foreman Paul Kelly. The system consists of 154 Kyocera solar panels mounted to a PanelClaw ballasted roof-mount system and two (2) Solectria 15kW solar inverters.

Recent and Current NECA Boston Chapter Member Photovoltaic Projects (partial list)

Project	Contractor
Alpha Grainger Manufacturing, Inc., Franklin, MA	Broadway Electrical Co., Inc.
Arthur Hurley Company, Readville, MA	Broadway Electrical Co., Inc.
Baystate School of Technology, Canton, MA	Lighthouse Electrical Contracting, Inc.
Braintree Electric Light Department	Broadway Electrical Co., Inc.
Carlson Orchards, Inc., Harvard, MA	Lighthouse Electrical Contracting, Inc.
Collicot School, Milton, MA	Broadway Electrical Co., Inc.
Concord Willard Elementary School, Milton, MA	Broadway Electrical Co., Inc.
Cottage Street PV Project, Springfield, MA	E.S. Boulous Company, Inc.
Deer Island Treatment Plant, Winthrop, MA	Broadway Electrical Co., Inc.
The Governor's Academy, Harbor Park Pavilion, Boston, MA	J.M. Electrical Company Broadway Electrical Co., Inc.
Byfield, MA	
Indian Orchard 2MW PV Project, Springfield, MA	E.S. Boulous Company, Inc.
Lawrence Boys and Girls Club Logan Airport, Terminal B Parking Garage	J. M. Electrical Company Broadway Electrical Co., Inc.
Medway High School	Broadway Electrical Co., Inc.
Quincy High School	Broadway Electrical Co., Inc.
Planet Subaru, Hanover, MA	Lighthouse Electrical Contracting, Inc.
Salem State College, Atlantic Hall	Broadway Electrical Co., Inc.
Silver Lake 2.5MW PV Project, Pittsfield, MA	E.S. Boulous Company, Inc.
St. Mary's High School	Broadway Electrical Co., Inc.
Trinity Financial Washington/Beech	Lighthouse Electrical Contracting, Inc.
Town of Rehoboth Senior Center	Broadway Electrical Co., Inc.
Watertown, MA DPW Building	Broadway Electrical Co., Inc.

Broadway Electrical Completes MWRA Deer Island Solar System



The design/build 456.12kW solar electric system at MWRA's Winthrop treatment plant was completed in May 2011

For a complete directory of NECA Greater Boston Chapter member firms, call 1-877-NECA-IBEW or visit us at www.bostonneca.org.