

SUPERCONDUCTING CABLE... CLEAN, GREEN AND FAST

LIPA supports environmentally-friendly methods of generating electricity as well as updating the existing electric system to improve the Long Island ecology. The new Superconducting Cable is just one of many "green" projects.

Superconductivity is the flow of electricity with little or no resistance. Reducing the resistance allows more electricity to flow through a wire, which reduces the number and size of wires required for the same electric flow. Superconducting cables can move 2 – 5 times more power than a conventional cable of the same size, freeing up valuable space in crowded transmission corridors and postponing or eliminating the need to upgrade transmission systems to higher voltages.

A common piece of equipment that uses superconductivity is the medical MRI (magnetic resonance imaging) device that many of us have experienced. Recent advances in new, ceramic superconducting compounds have enabled the development of newer, more usable superconductor cables. Superconducting cables must be cooled well below freezing (-321°F) to operate. This cable will use liquid nitrogen as the coolant.

LIPA, in partnership with the United States Department of Energy; American Superconductor Corporation and Nexans Cable is conducting a research and development project to develop a superconducting electric transmission cable that will be installed in the Holbrook transmission "right of way," with both ends connected to the existing transmission system. Installation of the superconducting cable will be underground in a plastic pipe. The expected turn-on date for the cable is September.

Although the LIPA project is R&D, once the Superconducting Cable technology is commercialized it will:

- ✓ Increase power transmission capabilities - they can move 2 – 5 times more power than a conventional cable of the same size
- ✓ Reduce or eliminate environmental impact
- ✓ Eliminate the need to increase system voltages to increase system capacity
- ✓ Cables can be placed in the electric grid to draw flow away from overtaxed conventional cables or overhead lines

That means that there will be increased amounts of electricity available, increased reliability, decreased cost, and increased environmental safety for our customers and LIPA will continue its work to assess how the technology will benefit our customers.



If you'd like your name to be added to our Trade News mailing list, please call the Energy Infoline at

1-800-692-2626

www.lipower.org/commercial/trade/news.html

Are you a "softy?"

When full-rated voltage is applied, most motors start rapidly and successfully. "Across-The-Line" starting is the main approach for ac induction motors, by utilizing an electromechanical contactor and overload device known as a "starter."

An option to a "full-voltage start" is a form of acceleration control, called "soft starting." With today's focus on efficiency, which in turn supports environmental concerns, interest in "soft starting" has been on the rise. The Energy Policy Act (EPAAct), federal legislation regarding energy standards, requires that all motors meet National Electric Manufacturers Association (NEMA) premium efficiency motor* standards, and that has also spurred interest in soft start.

Soft start technology starts the motor in a slower, controlled manner. In addition, a solid-state starter protects the motor from overload by providing protection by either electromechanical or electronic means. It also has the potential to reduce electric demand charges, disturbances on power lines, potential voltage sags and shock damage to the transmission line.

Motors can use up to five times the running current while starting, increasing wear and tear on the equipment and possibly creating internal Power Quality concerns. By installing an inexpensive 'soft start kit', you can:

- Reduce the wear on electrical equipment
- Reduce the wear on motor windings
- Reduce heat, vibration and noise
- Increase motor life
- Reduce maintenance costs
- Minimize the risk of damage or breakage to products

And much more!

These simple devices can benefit Residential and Commercial customers. Talk to your local equipment supplier to see if they have a 'soft start' kit for your next motor, HVAC unit, or other piece of equipment.

New uses for Heat Pumps

Just when you think a technology has found its niche, there is always something new



that is applied that makes us look and wonder, why didn't we think of that? Heat Pumps have found a new application here on Long Island as pool heaters. In speaking to several area pool companies, heat pumps are being installed more frequently as pool heaters. The benefits range from ease in installation, use of on-site trades, less impacts to landscaping and more. The newest units have evolved to higher efficiency making them more economical to operate. Manufacturers such as Hayward, Teledyne, Raypak, and others have made this market a growing one for trade professionals to install, service and promote. Contact your local pool distributors and companies to see if you can get in on this opportunity.

The New Call Before You Dig Number is 811

The new 811 was designated by the FCC to eliminate the confusion of multiple "Call Before You Dig" numbers and help save lives by minimizing damages to underground utilities. One easy phone call to 811 quickly begins the process of getting underground utility lines marked. Local One Call Center personnel will then notify affected utility companies, who will send crews to mark underground lines for free.



Do you need the latest information on LIPA's Commercial Construction program which offers rebates to customers for installing energy efficient equipment in their facilities? Call one of our Project Managers who are here to assist you in every facet of your project. They can offer design assistance, technology recommendations and assist you with the rebate submittal process. Call the Project Manager closest to your project location to discuss how LIPA can help you save energy and reduce energy costs.



Clean Energy Services Group

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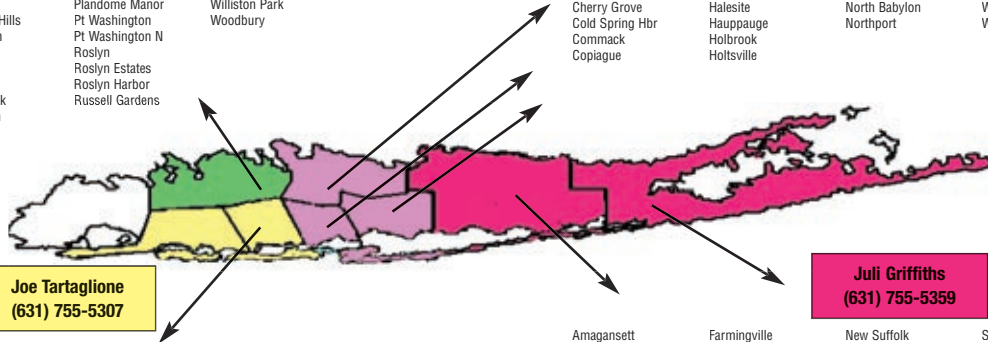
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