

Northex Group and Tri-Generation

Northex Group LLC partnered with an energy development company specializing in distributed power generation for health care facilities. The **Northex Group strategic partner's** management team capitalizes on 80 years of energy projects and health care services experience to bring to its customers uniquely efficient and environmentally sensitive cooling, heating and power solutions.

"The mission is to remove the inefficiencies from the traditional utility supply model, to be replaced by highly efficient and environmentally responsible on-site energy generation systems."

Who is the target market? Large manufacturers, health care facilities, data centers and any company that is dependent on the usage of large amounts of energy are under continuous pressures to reduce operating costs and provide higher quality services with less financial resources. Many of the traditional avenues to reduce operating costs have been exhausted. Our unique approach to restructuring energy costs through tri generation technology presents health care providers with the opportunity to reduce their total energy costs by up to 60%. These are dollars that fall directly to the bottom line.

Why is Tri-Generation so beneficial? Tri-Generation has inherent efficiencies that will consistently exist regardless of the volatility of the energy markets. The technology substantially improves the yield of usable BTU output per unit of input through the recapture and redirection of energy byproducts.

Key Benefits typically include:

- * System generates power at similar efficiency to central station power plants
- * On site generation eliminates Transportation, Delivery, Demand, and Line Loss charges (38% of Total Energy Costs)
- * Heat produced by generators is used for productive purposes
 - 90% of Boiler Production
 - 30% of Cooling Requirements

*Conforms to requirements for many Federal, State and Utility incentive funding programs.

What are the typical financial benefits for installing a system? Analysis have demonstrated significant financial advantages *with reductions in total energy bills from 45% to 60%, a simple payback on investment of fewer than 3 years and lifecycle ROI ranges from 250% to 400%.*

Why is Tri-Generation technology so environmentally desirable? The approach uses a multi fuel, Tri-Generation configuration that runs off a combination of natural gas and domestically produced biofuels. The use of biofuels and natural gas will significantly reduce the emissions from the site:

- ☑ The use of Biofuels and Natural Gas reduce the **Carbon Footprint by up to 87%**
- ☑ For example, hospitals can usually consume more thermal energy than the generators can produce so that the projects are very efficient
- ☑ BioFuels Contain Virtually No Sulfur
- ☑ BioFuels Contain No Polycyclic Aromatic Hydrocarbons
- ☑ BioFuel is Carbon Negative, and results in reducing Carbon Dioxide in the Atmosphere
- ☑ BioFuels Contain Virtually no Halogens
- ☑ Our partner incorporates LEED certification for the Project, and works with customers to qualify for energy incentives and funding.