



## IIA POWERGEN

Energy is the most significant driving force of our economy. A loss of energy brings substantial financial shortfalls by creating waste, downtime, and sometimes even life-threatening situations. You can depend on IIA PowerGen to evaluate your energy needs and provide solutions for energy production that stays on, stays clean, and stays affordable.

When reliable energy is critical, look to IIA PowerGen for:

- *Needs assessments*
- *CHP system development*
- *Equipment leasing and financing*
- *System operation and maintenance*

### **The Benefits of IIA PowerGen CHP Systems**

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Why depend on traditional methods of generating energy, when nearly a third is typically wasted in the form of heat? IIA PowerGen's Combined Heat and Power (CHP) systems produce electricity while putting thermal energy to use for cooling, heating, humidity control, energy storage, and other process functions. Our CHP systems are significantly more efficient than conventional power systems resulting in:

**Reduced Energy Costs.** Combined heat and power capabilities enable a higher system efficiency, which results in lower energy costs. The savings of primary energy achieved with CHP systems are typically 20% to 30% compared with systems that generate power and heat separately. IIA PowerGen's CHP systems can rapidly switch between natural gas and diesel fuels allowing you to control costs when fuel prices rise and fall.

**Environmental Benefits.** Our CHP systems run cleaner, quieter, and with reduced emissions compared to traditional methods of power generation.

**Risk Reduction.** A CHP system can be fully automated and operated from remote locations through a wireless broadband connection, reducing the risk to personnel who might otherwise be working on site.

**Improved Grid Reliability.** By incorporating a variety of technologies, our CHP systems have the flexibility to serve a single-building or an entire campus. They can operate simultaneously with your current power source giving you more control over power load. They can also operate independently, freeing your business from a highly vulnerable power grid and transmission lines.

## **Potential Applications**

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IIA PowerGen keeps your company up and running when the competition is floundering in the dark. IIA PowerGen CHP systems can supply power to a wide variety of critical business operations:

### **Continuous Electric Power**

- *Government facilities*
- *Local community power*
- *Military installations*
- *Telephone networks*
- *Internet networks*
- *Hospitals*
- *Banks and other financial institutions*
- *Airports*
- *Transportation management centers*
- *Television stations*
- *On-site industrial power*
- *Remote construction sites*

### **Bulk Electric Power and Process Steam Systems**

- *Hospitals*
- *Pharmaceuticals production*
- *Food processing*
- *Petrochemical plants*
- *Refineries*
- *Potable water production*
- *Desalination*
- *Water treatment*
- *District heating*

### **Bulk Electric Power and Cooling/Refrigeration Systems**

- *Data centers*
- *Ships*
- *Cold storage – meats & seafood*
- *Food processing*