



Doral Arrowwood Hotel Conference Center Reaps Rewards of Cogeneration



Doral Arrowwood is a unique resort experience nestled in the heart of 114 acres in Rye Brook New York, just a short drive away from New York City. Featuring luxury lodging, meeting and special event space, as well as a fitness center, indoor and outdoor pools, and a Robert von Hagge designed golf course—Doral Arrowwood is a full service property.

All those amenities require substantial amounts of energy to run smoothly.

Technology: Cogeneration System including 3 natural-gas powered InVerde 100 kW CHP units, 1 CM-75 75 kW CHP unit, and 2 450-ton chillers

Annual Cost Savings: approx. \$30,000 with On-Site Utility financing structure

Carbon Reduction: 3.6 million pounds annually, equivalent to removing 345 cars from the road or planting over 42,300 trees each year

The existing boiler system was inefficient, produced excess steam, and required constant maintenance. In addition, the

central cooling system was at end-of-life and in need of replacement.

In an effort to reduce energy costs, increase efficiency and assist in their green initiatives — the property

installed a 375 kW cogeneration system as well as a 900-ton chiller plant in 2011.

Consisting of three InVerde 100 kW units plus one CM-75, the combined



cogeneration system provides 375 kW of power along with space heat and domestic hot water. The resort also installed two 450-ton chillers which provide cooling (AC) in warm months.

Arrowwood instead selected an On-Site Utility agreement to conserve capital. This elegant solution allowed the resort to avoid any upfront costs for equipment purchase and installation as

As a result of the installation, Doral Arrowwood significantly reduced their grid-supplied electric demand, generating immediate savings. In addition, the resort opted to leave the old boilers in place, calling on them only in times of excess heating demand. This reduced boiler usage extended the equipment life considerably.

“Doral Arrowwood Hotel was looking to reduce energy waste, increase efficiency, and assist in their green initiatives—all while conserving capital for the core business. Our cogeneration solution, offered via an on-site utility agreement, met all these needs. Installed with no up-front cost to the resort, the property is able to benefit from clean, affordable and reliable energy—hassle free.” ~ Benjamin Locke, Tecogen Co-CEO

well as avoid any ongoing maintenance expense for the installed system. The resort pays simply for the energy consumed by the site, at a guaranteed discount to prevailing utility rates. In this way, the resort gets the best of both worlds—Doral Arrowwood gets cheaper and more

environmentally friendly energy without the costs associated with industrial equipment ownership.

While many cogeneration customers opt to pay for and own their equipment outright, Doral

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