

“THE SOLUTION”

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 Case Study Series

Thermal Solutions' Evolution Boilers Make a “Big Splash” at Great Wolf Lodge in Niagara Falls, Ontario Canada



Great Wolf Lodge is North America's largest family of indoor waterpark resorts. Of the twelve (12) locations in the United States and Canada, Thermal Solutions has nearly forty (40) boilers and water heaters installed in eight (8) of those locations.

To highlight one is the Niagara Falls Lodge & Waterpark. This four story, year-round full service resort has 406 suites and features 660,000 gallons of rides and slides in a 103,000 square foot indoor water park complete with 13 water slides, an enormous 118,000 gallon wave pool, 132,000 gallon winding lazy river, 3 hydro massage pools, several additional activity pools and structures.

As construction began in building this new site, Great Wolf Lodge's initiatives as a green hotel was to save energy and water while reducing waste. One of the companies teaming up with Enbridge Gas Distribution to take on this challenge was E.J. Walsh, our local sales representative in Ontario.

After reviewing the heating needs of both the building and pool, five (5) Evolution non-condensing boilers, each sized at 3,000,000 btuh natural gas input, were installed. Joe Krawczyk, Great Wolf Lodge's Director of Engineering explains “The Evolution boilers from Thermal Solutions have higher heating capacities but a smaller footprint. Their vertical chassis fits in less than six square feet of floor space. This energy efficient heating system could accommodate our facility's needs while providing the heat and cost savings we were after. User friendly and super quiet – less than 60 dB – these boilers are simple to operate and maintain. Operating efficiency was also a factor. These boilers operate at 88 percent efficiency rating, meaning 88 cents out of every dollar is used to create heat.”

EJ Walsh's Jonathan Ingram added “This waterpark can't afford for the water to be cool. The boilers we supplied come with a peace of mind factor that can't be underestimated. Great Wolf Lodge promises 83°F water, 365 days a year and we made sure that they'd be able to do just that!”

With the Evolution boilers, Great Wolf Lodge is saving nearly 29 million cubic feet of natural gas consumption a year. Therefore, with the \$1.6 million expenditure made, the simple payback is estimated in 3.6 years.

To hear more success stories about Thermal Solutions boilers and water heaters, please contact us or our local sales representatives.

This case study was provided by Enbridge Gas Distribution Marketing Department