

CHP BUSINESS IMPACT SCENARIO

The Radio Hotel* **New York, NY USA**

Guest Rooms: 221 Estimated Square Feet: 89,188 Kilowatt Hours Intensity per SF: 14.2 1 Cubic Feet NG Intensity per SF: 44.6

(Hotel Only)

"As-Is"

"To-Be"

Utility-Sourced Electricity Combined Heat & Power

Electricity Kilowatt Hours (KwH)

Total Electricity Costs	285,906	\$1,200
Utility Service Charges 3	\$45,745	\$1,200
Cost per KwH³	\$0.181	1 1-11
Total KwH Consumption	1,266,470	1,266,470

Natural Gas Dekatherms (DTH)

Total Energy Costs	\$1,017,002	\$128,494
Total Natural Gas Costs	\$38,664	\$40,633
Net DTH Consumption Cost per DTH ⁵	3,978 \$9.72	4,4918 \$8.26
Space & Water Heating (DTH)⁴ Cooking & Other (DTH)	3,381 597	10,592 1,869
Electricity Generation (DTH) CHP Recapture (DTH)	A LALL	13,538 (10,592)
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Ten-Year Cash Flows from EBITDA, including maintenance costs Impact on Sell Price in Year 11 @ EBITDA Selling Multiple x 12	\$3,021,383 \$4,165,316
Total Value Created from Ten-Year Cash Flows + Sell Price	\$7,186,698
Internal Rate of Return (IRR), not including incentives	70%

Metric Tons of Carbon Dioxide (CO2) Reduced Annually ⁶	270 (75%)
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^{*}Disclaimer: The CHP Business Impact Scenarios are hypothetical examples based on publicly available data, primarily from the U.S. Energy Information Administration (EIA). Findings and calculations are independently derived without direct input from property owners. Actual results may vary.

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^{1.} Source: US Energy Information Administration KwH intensity for lodging facilities in mild climates
2. Source: US Energy Information Administration Natural Gas intensity for lodging facilities in mild climates
3. Source: US Energy Information Administration KwH average commercial prices 2023 in NY, plus estimated utility service charge
4. Source: US Energy Information Administration; Space & Water Heating composes 86% of a hotels NG use
5. Source: US Energy Information Administration DTH average commercial prices 2023 in NY; "To-Be" scenario assumes 15% discount

^{6.} Source: US Environmental Protection Agency Greenhouse Equivalencies Calculator