

# CHP BUSINESS IMPACT SCENARIO

## Fairmont Pacific Rim\* Vancouver, BC Canada

**Guest Rooms:** 367      **Kilowatt Hours Intensity per SF:** 11.4 <sup>1</sup>  
**Estimated Square Feet:** 800,000      **Cubic Feet NG Intensity per SF:** 53.9 <sup>1</sup>

	<b>“As-Is”</b> Utility-Sourced Electricity	<b>“To-Be”</b> Combined Heat & Power
<b>Electricity Kilowatt Hours (kWh)<sup>2</sup></b>		
Total kWh Consumption	9,120,000	9,120,000
Cost per kWh	CAD 0.125	
Utility Service Charges	CAD 285,000	
<b>Total Electricity Costs</b>	<b>CAD 1,520,000</b>	<b>CAD 1,200</b>
<b>Natural Gas Dekatherms (DTH)</b>		
Electricity Generation (DTH)	-	17,504
CHP Recapture (DTH)	-	(14,003)
Space & Water Heating (DTH) <sup>3</sup>	32,340	21,830
Cooking & Other (DTH)	10,780	2,426
Net DTH Consumption	43,120	49,344
Cost per DTH <sup>4</sup>	CAD 7.50	CAD 6.38
<b>Total Natural Gas Costs</b>	<b>CAD 323,400</b>	<b>CAD 314,567</b>
<b>Total Energy Costs</b>	<b>CAD 1,843,400</b>	<b>CAD 314,567</b>
<b>Impact in Year 1 (Cash Flow)</b>		<b>CAD 1,527,633</b>
Ten-Year Cash Flows from EBITDA, including maintenance costs		CAD 15,909,514
Impact on Sell Price in Year 11 @ EBITDA Selling Multiple x 16		CAD 29,313,860
<b>Total Value Created from Ten-Year Cash Flows + Sell Price</b>		<b>CAD 45,223,375</b>
Internal Rate of Return (IRR), not including incentives/financing		N/A
<b>Metric Tons of Carbon Dioxide (CO2) Reduced Annually<sup>5</sup></b>		<b>2,711 (69%)</b>

*\*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.*

1. Source: US Energy Information Administration kWh and NG intensity for lodging facilities in climate Zone 4A -  
 2. Source: British Columbia Utilities Commission (BCUC) average commercial prices 2023, plus estimated utility service charge f  
 3. Source: US Energy Information Administration average uses of natural gas in hotels  
 4. Source: British Columbia Utilities Commission (BCUC) DTH average commercial prices 2023 "To-Be" scenario assumes 15% discount from hedging  
 5. Source: US Environmental Protection Agency Greenhouse Equivalencies Calculator