



**APPENDIX-A1 (Absolute Performance Targets Pathway)**  
**Toronto Green Standard Energy Efficiency Report**

**PROJECT INFORMATION:**

Project Address: 134 Laird Drive , Toronto, Ontario  
 SPA Number: \_\_\_\_\_  
 Date(dd-mm-yyyy): 12-Aug-20  
 Building Type (Please Select): High-Rise Multi-Unit Residential Buildings

**Energy Modeller Information:**

Company Name: SRS Consulting Engineers Inc.  
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Contact Person: Phil Fung  
 Telephone #: Phil Fung

**Architect Information:**

Company Name: Turner Fleischer Architects Inc.  
 email: kevinl@turnerfleischer.com

Contact Person: Kevin Lee  
 Telephone #: 416-425-2222 ext. 301

Total Modeled GFA (m<sup>2</sup>): 9,306.00 GFA=MFA (Above+Below Grade Area Exclude Parking Garage Area)  
 High-Rise Multifamily Residential GFA (m<sup>2</sup>): 9,306.00

Energy Simulation Software Used: eQUEST 3.65

TGS Benchmark Matrix	SB10					Proposed Building					Estimated Savings		Notes
	SB10	Tier-1	Tier-2	Tier-3	Tier-4	Measures	Electrical Annual Consumption (kWh)	Natural Gas Annual Consumption (kWh)	EUI kWh/m <sup>2</sup>	TEDI <sup>b</sup> kWh/m <sup>2</sup>	GHGI <sup>a</sup> kgCO <sub>2</sub> e/m <sup>2</sup>	Total Annual Energy Savings (kWh) <sup>c</sup>	
						Lighting	145,560.00		121.5	47.3	10.7		
EUI kWh/m <sup>2</sup>	225	170	135	100	75	Misc. Equipment	171,450.00						
TEDI kWh/m <sup>2</sup>	80	70	50	30	15	Space Heating	123,760.00	48,227.80					
GHGI kgCO <sub>2</sub> e/m <sup>2</sup>	28	20	15	10	5	Space Cooling	173,330.00						
						Heat Reject							
						Pumps	43,760.00						
						Fans	131,500.00						
						Service Hot Water		281,309.30					
						Other	11,410.00						
						<b>Total</b>	<b>800,770.00</b>	<b>329,537.10</b>			<b>963,542.90</b>	<b>160.9</b>	

Total Annual Heat Demand - for TEDI 440,370.00 kWh  
 Please see Appendix-C for the calculation

Remarks: TGS TARGET MET Tier<sup>d</sup>: Tier-2

a. GHGI is automatically calculated using the emission factor extracted from SB10 (0.05kg of CO<sub>2</sub>/kWh Electric & 1.899kg of CO<sub>2</sub>/m<sup>3</sup> Nat. gas). (1m<sup>3</sup> = 10.5kWh)  
 b. TEDI value must be input. See Energy Terms of Reference and Modelling guideline V3 for TEDI definition. Supporting calculation required to review TEDI value.  
 c. Total Annual Energy Savings and GHGI Tons of CO<sub>2</sub> Saved is the sum of Annual Electrical and Natural Gas in comparison with the estimated typical SB-10 Building.  
 d. Absolute targets and level of Tier achieved will be verified with relevant supporting documents.  
 e. Non Archetype Reference Target only required if modelled GFA of the non-archetype portion is greater than 10% of the GFA for the whole building refer section 5.6. Mixed Use building in the modelling guideline.  
 I hereby certify that the proposed energy consumption and TEDI are properly representative of the Energy Modelling Report submitted for the above project.

Energy Modeller Name: Phil Fung

Architect Name: Kevin Lee

Signature: \_\_\_\_\_

Signature: \_\_\_\_\_